

Tools, Fasteners & Accessories

Catalog No. 912

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METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES

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Malco Starter Sets

Tailor made for the young professional just starting out in the sheet metal or siding trade or the old pro who wants to treat himself to the newest and best. Carefully selected assortments of the most wanted tools plus a free "Heavy Duty" tool box.

DELUXE STARTER SET

FREE 1602 Tool Box



Catalog Number	Description				
ST.KIT	The following assortment of 27 tools and a FREE 1602 Tool Box.				
C1	Hand Crimper	3R	Aviation Snip	A20	Scratch Awl
SL1	Snap Lock Punch	*RH4	Riveting Hammer	3L12	Tape Rule
N1	Hand Notcher	K41	Screwdriver	CHP	Compass saw handle
S2	Hand Seamer	K44	Screwdriver	12CS	Compass saw blade
12	Folding Tool	K56	Screwdriver	W19	Hex key wrench
18	Divider	K68	Screwdriver	FS10S	Drill bit set
1R	Aviation Snip	P33	Screwdriver, phillips	**SH3	Setting hammer
M14	Aluminum Snip	P44	Screwdriver, phillips		
2R	Aviation Snip	A0	Scratch Awl		
MS65	Mini Saw	A1	Scratch Awl		

STARTER MINI KIT

FREE 1601 Tool Box



Catalog Number	Description				
STKM	The following assortment of 12 tools and a FREE 1601 Tool Box				
C1	Hand Crimper	8	Folding Tool	M12	Aluminum Snip
N1	Hand Notcher	18	Divider	A1	Scratch Awl
S2	Hand Seamer	1R	Aviation Snip	**SH3	Setting Hammer
SL2	Snap Lock Punch	2R	Aviation Snip	DS1	Duct Stretcher

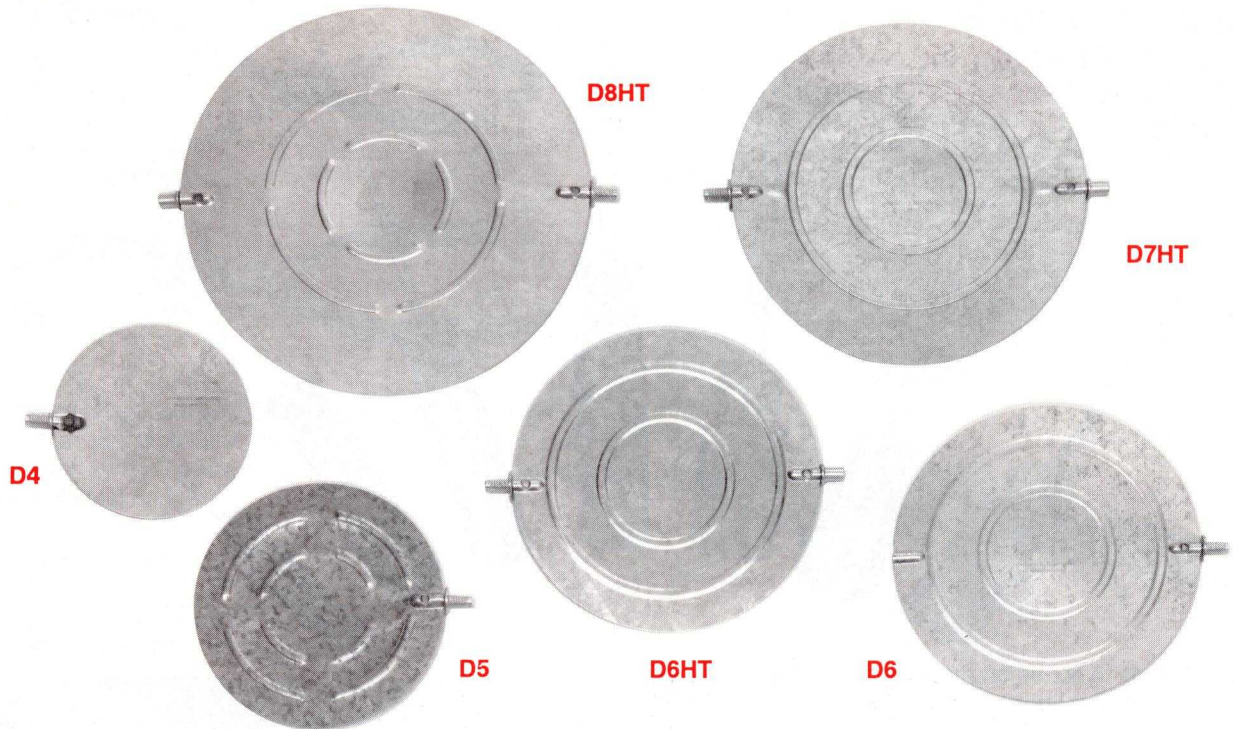
**SH3B may be substituted for SH3.

*RH4B may be substituted for RH4.

METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES



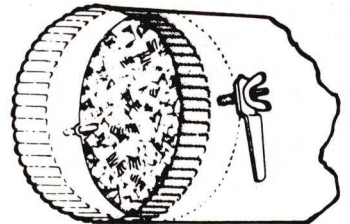
Dampers



For a properly balanced forced air system. Get maximum energy efficiency and economy with easy to install single and double bearing dampers. 1/4" bearings allow installer to make bearing holes anywhere in pipe with the use of a scratch awl or Malco Step Drill. Heavy galvanized steel dampers are rigid and noiseless even when secured at one end of pipe only. Adjustment can be made with screwdriver or damper handle. Available in 5 sizes with or without handles. Wing nuts included with all dampers.

PRE-ASSEMBLED DAMPERS, HANDLES AND WING NUTS

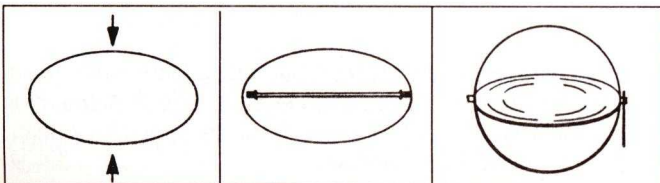
Catalog Number	Pipe Diameter	Bearing
D4AS	4"	single
D5AS	5"	single
D6AS	6"	single
D6HTAS	6"	double
D7HTAS	7"	double
D8HTAS	8"	double



STANDARD DAMPERS/Wing Nuts Included

Catalog Number	Pipe Diameter	Bearing
D4	4"	single
D5	5"	single
D6	6"	single
D6HT	6"	double
D7HT	7"	double
D8HT	8"	double

CAUTION: Malco Dampers are designed for forced air systems, they are not capable of being used in wood, coal, or other similar systems.



Squeeze pipe so that it is oval shaped. Insert damper into pre-punched bearing hole(s). Pipe will spring back to round when released. Secure with wing nut(s) provided. Damper may be adjusted with screwdriver or optional damper handle.

DAMPER HANDLES ONLY

H1



Catalog Number	Description
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H1 Handle for all size dampers.

WING NUTS ONLY

WN100 Wing Nuts for all size dampers.



METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES

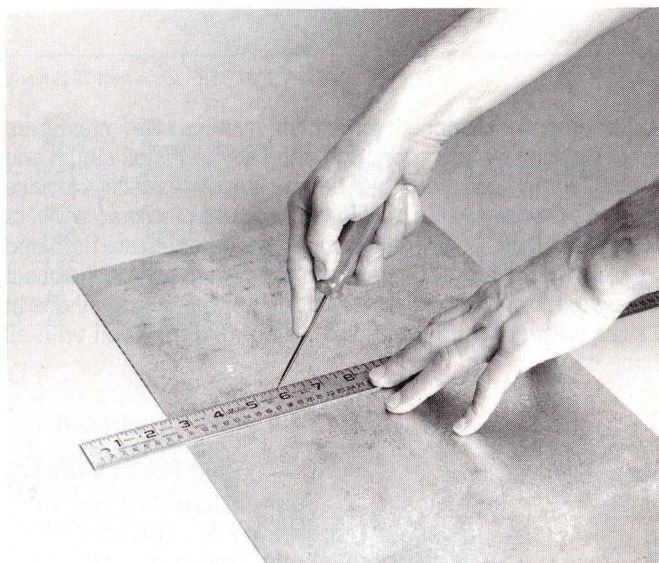
Scratch Awls

**INDUSTRY'S LARGEST
SELECTION FEATURING
EASY TO SPOT ORANGE
HANDLES**



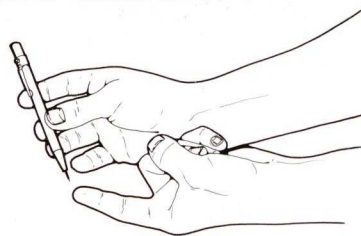
Use scratch awls to scribe on metal or pierce holes in wood, plastic, leather - even light gauges of sheet metal. Blades are high carbon, alloy tool steel fully polished to resist rust. Blade tapers to a fine point and may be resharpened many times. Easy-to-spot orange handles are shock and shatter resistant. Shallow fluted handles with large end bearing surface provide a sure, comfortable grip. User has choice of large diameter or regular grip handles. All handles are non-roll design for on-the-job convenience. Blades and handles are joined securely and will give many years of dependable service.

Catalog Number	Blade Size		O/A Length.
	Regular Grip Handle	Large Diameter Handle	
A00		1/8"	3"
A0		1/8"	3"
A10		3/16"	3-3/4"
A20	A1	7/32"	3-1/2"
	A2	1/4"	4"
	A3	3/8"	5"



Carbide Tipped Scriber

**STAY
SHARP
SOLID
CARBIDE
TIP**



A50



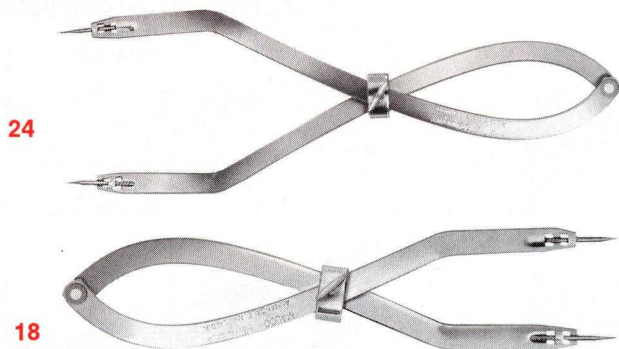
Solid carbide tip for scribing fine lines on hardened steel as well as glass, ceramics, plastics or sheet metal. Retractable tip is easily replaceable. Tool has handy pocket clip. Stay sharp carbide tip insures long service.

Catalog Number	Description
A50	Carbide Tipped Scriber with retractable point.
A50R	Replacement Carbide Tip.

METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES



Dividers



Accurate and fast adjusting. 2 sizes for circles up to 36" and 48". Scribes a thin, accurate line time after time. Expertly heat treated scratch awl points are easily resharpenable or replaced. Nickel plated steel body.

Catalog Number	Maximum Dia. Circle	Length	Net Weight
18	36"	11"	7 oz.
24	48"	13-1/2"	9 oz.

REPLACEMENT PARTS

RP2 Replacement points for 18 and 24.

Trammel Points



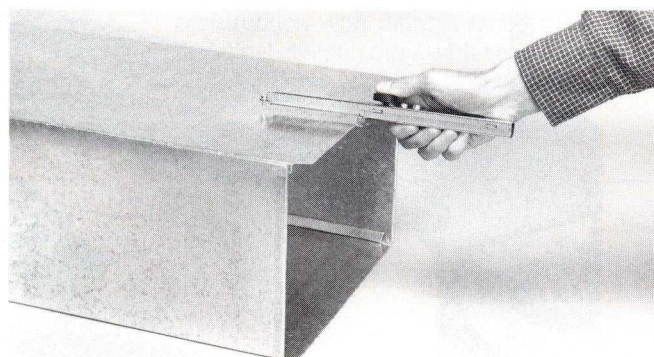
Two sizes handle a variety of layout applications. The TR42 expands to a big 42" radius (84" diameter). The compact TR18 expands to 18" and stores in most tool boxes. All steel construction. Points are resharpenable and also replaceable. Telescoping arms are nickel plated to resist corrosion. Handle features a comfortable vinyl grip.

Catalog Number	Radius Min.	Radius Max.	Overall Storage Length	Net Weight
TR18	7"	18"	12"	4 oz.
TR42	12"	42"	24"	7 oz.

REPLACEMENT PARTS

TRP 1 pair replacement points.

ADJUSTABLE Sheet Metal Scriber



Measure, mark and scribe sheet metal in one easy operation. The Malco A60 Scriber takes the place of three tools for scribing trim lines on flat stock or down-sizing prefab duct and components. Use the A60 to measure the depth of trim by reading the 1/8" graduated rule on the scriber extension. Tighten knob to hold measure true. The stop located at end of scriber sleeve glides along edge of work as a Zip-in™ screw point scribes a clean, hard line.

The Malco A60 is pocket size, yet adjustable from 1/4" to 12-1/2" depths. Simply rotate the scriber extension and knob assembly end to end in sleeve holder for larger 6-1/2" to 12-1/2" depth trim lines.

Scriber folds down to a compact 8-1/2" length with the Zip-in™ screw point covered for easy, safe storage in pocket, apron or tool box.

The incorporation of a sharp, tapered 6 x 3/8" Zip-In™ screw into the scriber design makes point replacement on the A60 practical and economical.

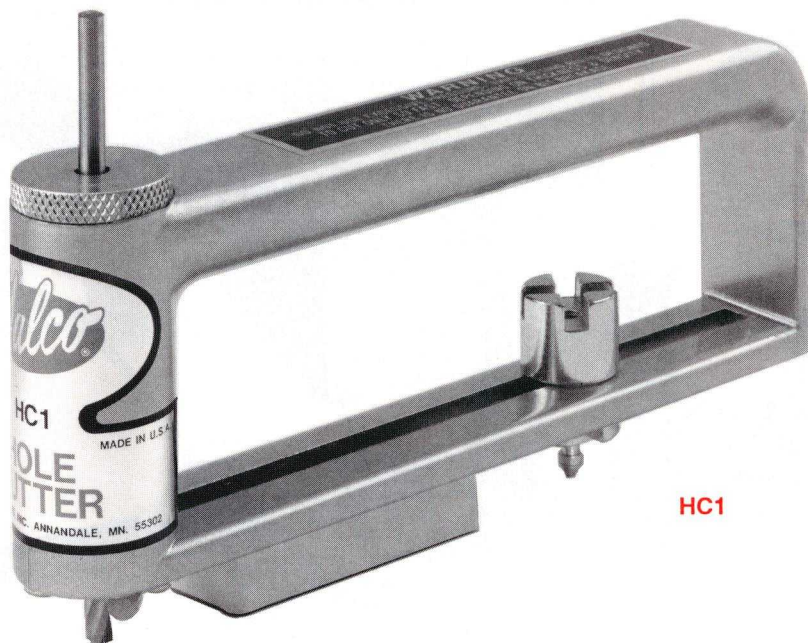
The scriber sleeve and extension is constructed of rust resistant nickel plated steel. The knob assembly features a hardened steel bolt insert that will not strip out when tightened.

Catalog Number	Minimum & Maximum Adjustments	Net Weight
A60	Scribes 1/4" to 12-1/2" depths.	10 oz.



METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES

Hole Cutter



HC1

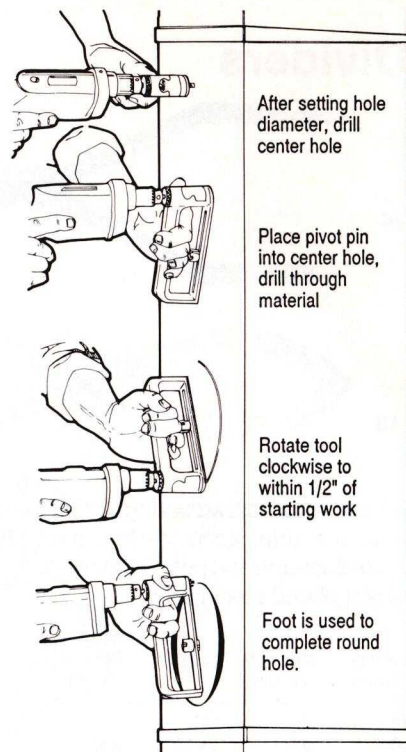
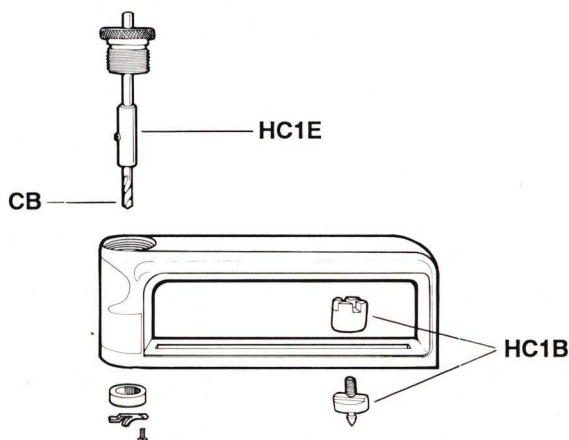
Cuts holes up to 12" diameter in 20 gauge sheet metal. Hole for take off fitting can be cut in about 1 minute. Use with any standard 1/4" electric drill. Cutter pivots on a pre-drilled center hole. Patented shoe feature permits smooth finishing of holes. High speed bearings at top and bottom of drill shaft insure perfect cutting balance and long life of mill type cutting bit. Cast aluminum body. All wearing parts made of special heat treated steel.

Catalog Number	Hole Dia.	Capacity	Net Weight
HC1	2 to 12"	20 ga.	1 lb.

REPLACEMENT PARTS

Catalog Number	Description
CB	Mill type cutting bit for HC1
HC1B	Pivot Pin Set
HC1E	Adjustment sleeve w/screw

NOTE: Cutting bit wears only in the amount of the thickness of material cut. Adjusting bit up or down slightly will expose a new cutting edge and thus increase life of bit.



Pipe & Duct Holders LIKE AN EXTRA PAIR OF HANDS



2DH

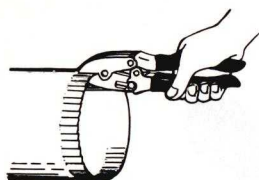
Two powerful clamps and four feet of strong 125 lb. tensile strength linked chain. Set holds any size or shape duct or pipe in place, either between or under joists until it is properly secured. Also ideal for installing fiberglass duct, link chain will not puncture foil skin. Chain locks quickly and easily into top and bottom slots of clamps at 1/2" intervals. Clamp handles are a big 8" long for extra leverage and one hand operation. Both clamps and chain are nickel plated steel.

Catalog Number	Description
2DH	1 pair of clamps and chain

METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES



5-Blade Crimper MAKES A DOUBLE CRIMP



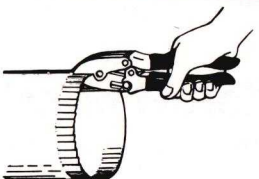
C1



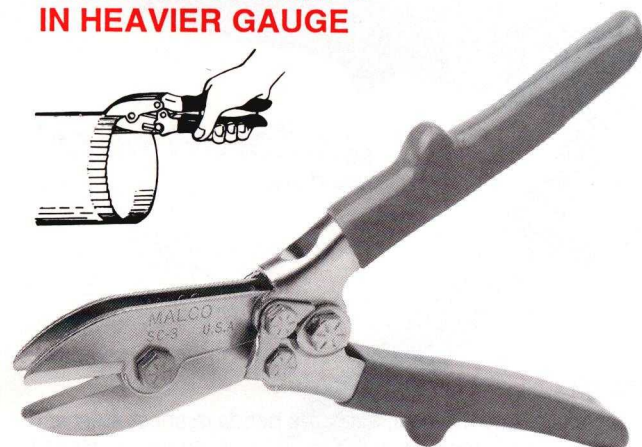
For joining identical size sheet metal pipe and duct, or aluminum corrugated downspout, at the job site. Powerful compound leverage design makes hand crimping fast and easy. All steel construction with durable nickel plate finish. Red vinyl cushion grips with handle stops offer added comfort and ease of operation.

Catalog Number	Throat Depth	Length	Net Weight
C1	1-1/4"	9"	1 lb.

3-Blade Crimper FOR SINGLE CRIMPS IN HEAVIER GAUGE



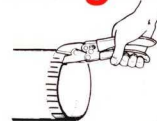
SC3



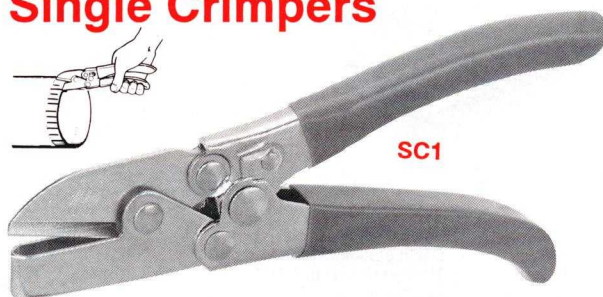
Ideal for crimping heavy 22 and 24 gauge sheet metal. Nickel plated all steel construction with red vinyl cushion grips.

Catalog Number	Throat Depth	Length	Net Weight
SC3	1-1/4"	9"	14 oz.

Single Crimpers



SC1

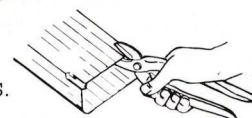


Fast, easy to use and lightweight. Handy lock makes tool pocket sized for on-the-job use. Zinc plated steel. Red grips.



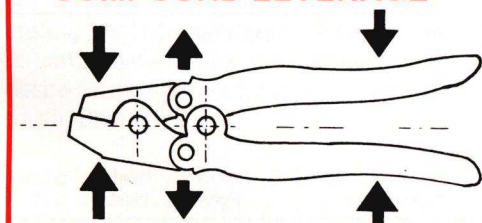
SC2

Single leverage type without grips.



Catalog Number	Throat Depth	Length	Net Weight
SC1	1-1/4"	8"	1/2 lb.
SC2	1-1/8"	8"	1/2 lb.

COMPOUND LEVERAGE



Extra linkage between handles and jaws of these outstanding Malco tools substantially increases pressure applied at handle end by user. **Malco compound leverage hand tools offer superior on-the-job performance with maximum ease of operation.**

Other outstanding features of these tools include: **one hand operation, spring return action handles, non-slip vinyl cushion grips and all steel construction.**

REPLACEMENT SPRINGS

Catalog Number	Description
5018	Spring: C1, S2, S3, S6, SL1, SL2, N1.



METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES

Malco Hand Seamers A PROUD FAMILY TRADITION



Drop Forged
High Impact
Steel

S3
Offset
Handles

Hardened
Steel
Handles

S2

Vee-Notched
Depth graduations in
1/4" increments to 1-1/4"
bending depth.

S6
Wide 6" Jaws

HAND SEAMER

Bends and flattens metal easily. Makes permanent, tight fitting seams. Precise vee-notched depth graduations on jaws are in 1/4" increments. Jaws are drop forged, high impact steel. Hardened steel handles resist abuse. Powerful compound leverage design. Black vinyl cushion grips with handle stops offer added comfort and ease of operation. All steel parts and hardware are nickel plated.

Catalog Number	Jaw Capacity Depth	Width	Overall Length	Net Weight
S2	1/4" to 1 1/4"	3 3/4"	8"	1 lb. 8 oz.

OFFSET HAND SEAMER

Bends and flattens metal easily, overhead or in confined areas. The Malco Offset Hand Seamer features the same great functional design and compact, rugged construction as the popular S2 model.

S3	1/4" to 1 1/4"	3 3/4"	8"	1 lb. 8 oz.
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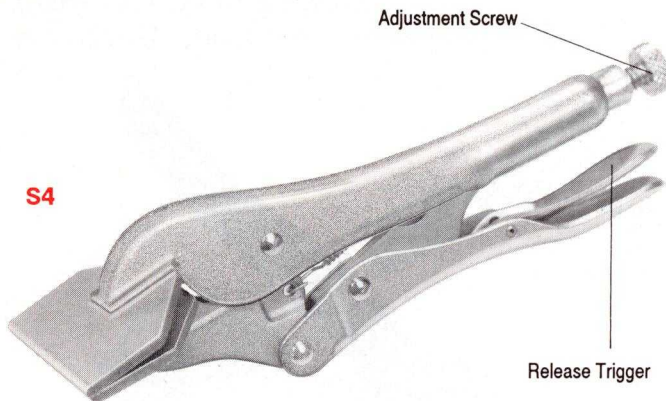
6" HAND SEAMER

Large jaws produce uniform, accurate bends in sheet steel and non-ferrous metals with greater control and efficiency. The 6" wide jaws not only grip more work, but they also minimize buckling and bowing of metal. Fewer strokes are required to bend and straighten angles.

The S6 is designed for all the metal trades, including HVACR installation, roofing and siding applications and commercial building and remodeling.

Catalog Number	Jaw Capacity Depth	Width	Overall Length	Net Weight
S6	1/4" to 1 1/4"	6"	8"	1 lb. 14 oz.

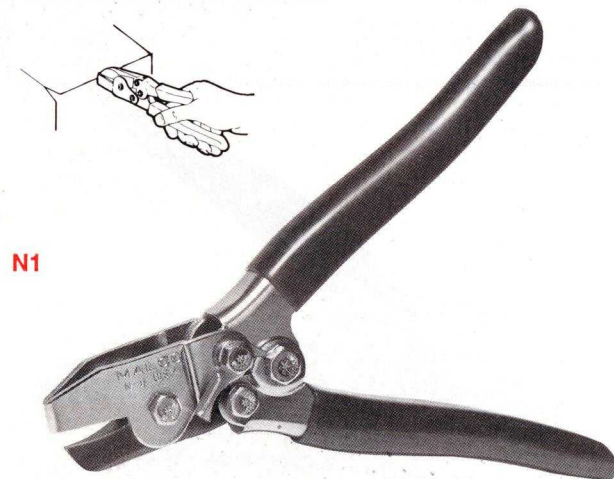
Locking Seamer



Locks to work with powerful grip. Adjustment screw applies just the right amount of pressure for various material thicknesses. Press the release trigger and the jaws snap open. Made of high grade alloy steel and heat treated for maximum toughness and durability. Nickel plated.

Catalog Number	Jaw Capacity Depth/Width	Length	Net Weight
S4	1-3/4" to 3-1/8"	8"	1 lb. 3 oz.

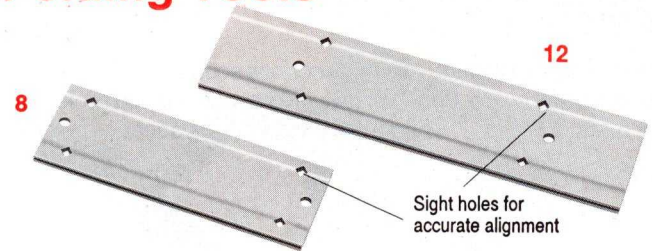
Hand Notcher



Fast and easy cutting. Notcher makes a clean 30° "V" shaped cut in sheet metal. 13/16" maximum throat depth. Upper cutting jaw is drop forged high impact alloy steel. Hook design of cutting jaw facilitates notching corners or take-off tabs to desired depth without slipping. Nickel plate and black oxide finish. Blue grips.

Catalog Number	Throat Depth	Cutting Angle	Length	Net Weight
N1	13/16"	30°	8"	1 lb.

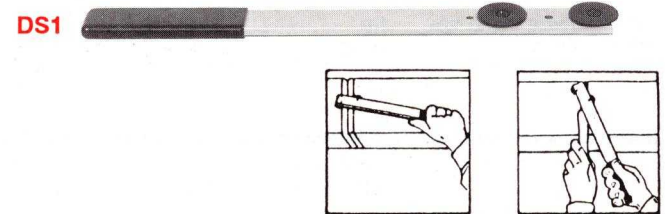
Folding Tools



Sturdy tools fold 24 to 30 gauge mild steel. Tools have folding seams for both 3/8" and 1/2" folds. Two sight holes along each folding seam aid in aligning the tool and assuring an accurate bend. Available in 8" and 12" folding lengths. Stores flat in bottom of tool box. Handy hang-up hole. Steel seam halves are securely fastened together with permanent welds. Gray metallic baked enamel finish.

Catalog Number	Capacity	Folding Depth	Length	Net Weight
8	24-30 ga.	3/8", 1/2"	8"	14 oz.
12	24-30 ga.	3/8", 1/2"	12"	1 lb. 4 oz.

Duct Stretchers



Improved design allows tool to pull duct together from either direction without adjusting the wheels. Use the Duct Stretcher to hold duct in place with one hand while slipping drive cleat in place with other hand. The low profile, straight body is designed to go anywhere, even in the tightest quarters. Additional spacing holes allow wheels to be adjusted to span greater distances. Rugged anodized aluminum body features large vinyl cushion grip and handy hang-up hole.



Same features as DS1 plus offset handle to eliminate knuckle contact. The offset feature is helpful for large duct installations where the handle end of tool does not hang down, free of the side of the duct. Wheels can be changed to other side of tool.

Catalog Number	Length	Net Weight
DS1	16"	12 oz.
DS2	16"	12 oz.

REPLACEMENT PARTS

Catalog Number	Description
DS1C	Replacement wheels, nuts & screws (2 ea.)

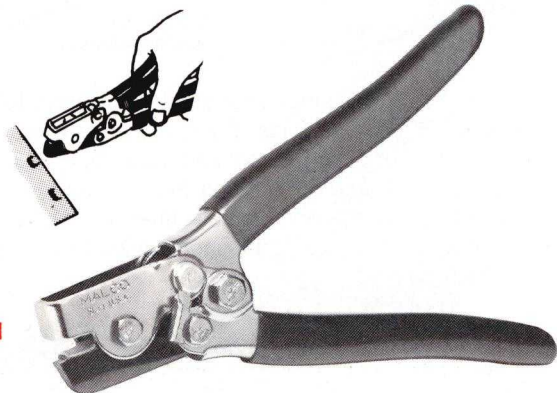


METALWORKING AND SIDING HAND TOOLS AND ACCESSORIES

Snap Lock Punches

Join sheet metal, duct and pipe sections economically. No need for extra hardware. Punches raise a louvered shaped projection on metal edge for locking into rolled edge of sheet or piece to

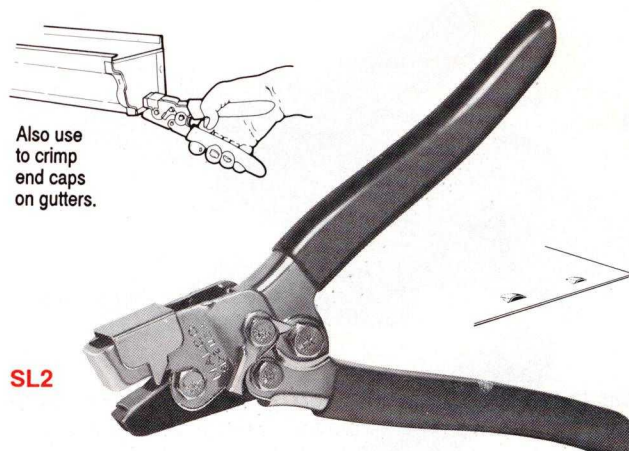
be joined. Metal pieces snap together and are fastened securely. Snap Lock Punches available to suit a variety of applications.



SL1

Punch impression spaced 3/8" from edge of metal. Heavy forged cutting jaw. Nickel plate and black oxide finish. Green grips.

Catalog Number	Throat Depth	Length	Net Weight
SL1	3/8"	8"	1 lb.



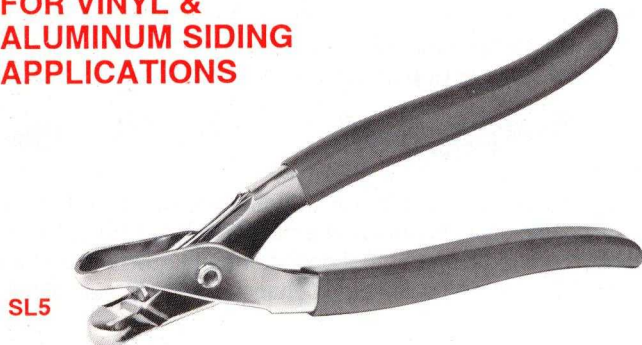
SL2

Slide adjustment for throat depth allows settings from 1/4" to 5/8" depth. Also used to crimp end caps on gutter. Nickel plate and black oxide finish. Green grips. Formed metal cutting jaws.

Catalog Number	Throat Depth	Length	Net Weight
SL2	1/4" to 5/8"	8"	1 lb.

VINYL AND ALUMINUM SIDING TOOLS AND ACCESSORIES

SPECIALLY DESIGNED FOR VINYL & ALUMINUM SIDING APPLICATIONS



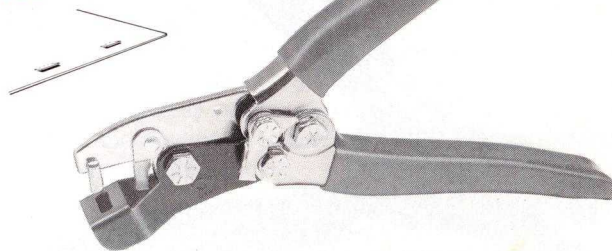
SL5

Snap lock plastic skirting and siding to finishing trim. Punch raises a high projection to compensate for natural relaxation of vinyl plastic. It also works well on aluminum siding but is not recommended for steel.

Catalog Number	Throat Depth	Length	Net Weight
SL5	3/8"	9"	12 oz.

FOR VINYL ONLY

SL8



For securing vinyl skirting and siding to finishing trim. The SL8 produces wider, more secure locking tab projections. Tabs grip a greater surface area and guard against dislodging due to relaxation of vinyl from heat. SL8 installations also resist blowout during times of high pressure and wind. Constructed of steel stampings and rugged investment cast alloy steel jaws. Nickel plate and black oxide finish with compound leverage design with red vinyl cushion grips.

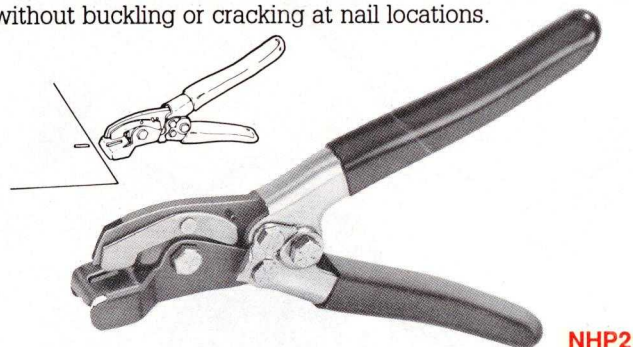
Catalog Number	Throat Depth	Length	Net Weight
SL8	1/2"	8-1/2"	1 lb.

VINYL AND ALUMINUM SIDING TOOLS AND ACCESSORIES

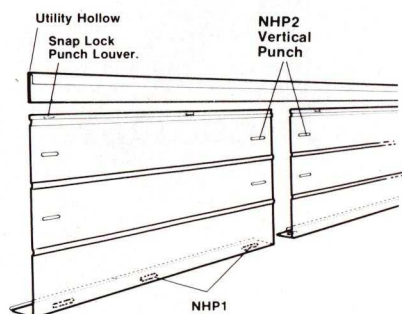


Nail Hole Slot Punches FOR VINYL AND ALUMINUM

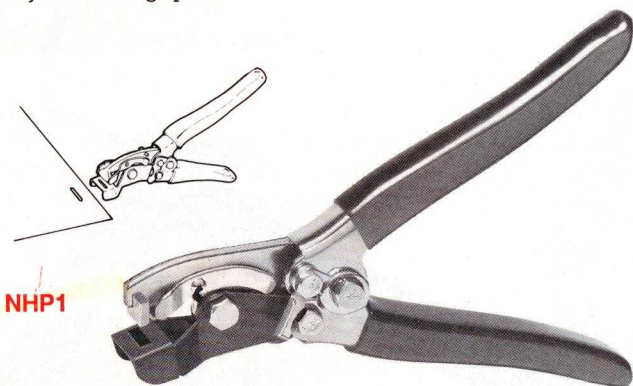
Punch and die head assembly produces clean nail slots in vinyl or aluminum exterior building materials. Permits normal expansion and contraction of panel from temperature changes without buckling or cracking at nail locations.



NHP2



The new NHP2 Punch vertically orients a 1/8" x 1/2" slot from the seam edge of fascia or hand formed trim coil. Use in combination with the Malco NHP1 horizontal punch to create a **floating fascia system**. Constructed of steel stampings and rugged investment cast alloy steel jaw. Nickel plate and black oxide finish. This compound leverage design tool features black vinyl cushion grips.

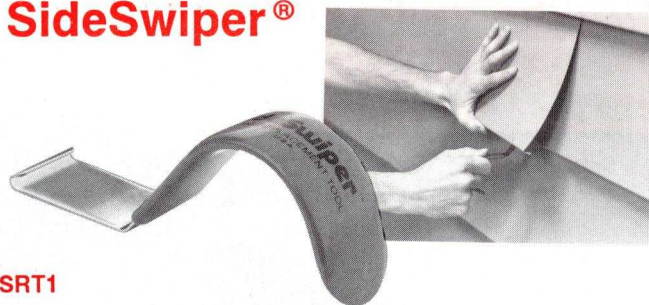


NHP1

The NHP1 punches a generous 5/32" x 3/4" horizontal slot for adding nail holes as required to trim or the cut edge of siding panel.

Catalog Number	Throat Depth	Length	Net Weight
NHP2	5/8"	8-1/2"	1 lb.
NHP1	5/8"	8-1/2"	1 lb.

SideSwiper®



SRT1

SideSwiper's® unique offset design makes work more accessible. Work faster, work safer. New wider body and comfortable vinyl gripped handle conforms to the hand, protects knuckles and affords greater leverage and control when replacing siding panels.

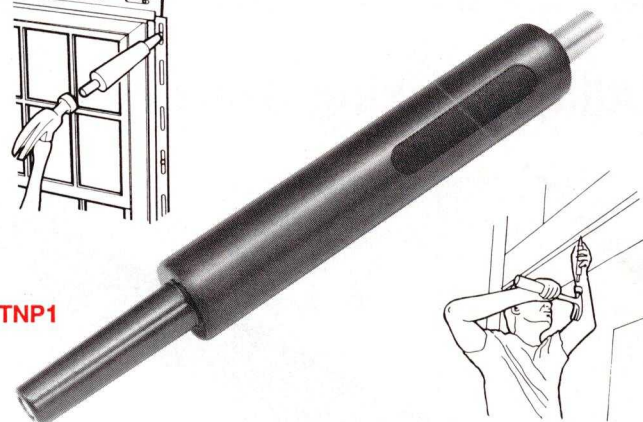
Simply wedge the SideSwiper® tip under the bottom end of overlapping panel and hook on to the back lip of buttlock in one easy motion. Pull downward on SideSwiper's® handle and slide the tool along length of panel to disengage lock and expose nail row of siding panel to be replaced. Use the SideSwiper® in the same manner to install replacement panel. The SideSwiper's® durable one piece, spring steel construction is virtually indestructible.

Catalog Number	Length	Net Weight
SRT1	4-1/4"	1 oz.

Trim Nail Punch



TNP1



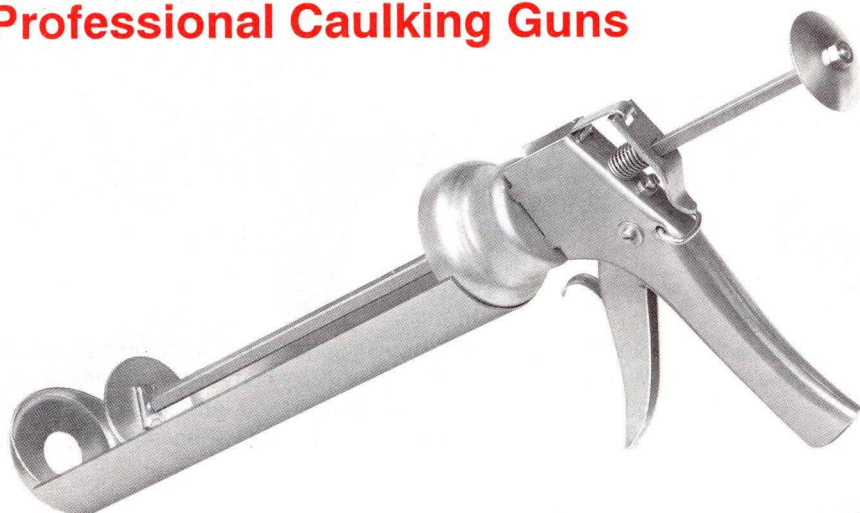
For driving trim nails underneath gutter into soffit without denting or marring soft aluminum material. Accommodates up to 1-1/4" aluminum or stainless steel nails. Punch is tapered to fit inside 1/2" 'J' channel. 6" length provides all the reach you need to get the job done right. Driving pin is made from a specially hardened machine steel for long service life. Nickel plating and tough plastic sleeve resist cold and elements.

Catalog Number	Description	Net Weight
TNP1	Trim Nail Punch	3 oz.



CAULKING GUNS

Professional Caulking Guns



CG25



CG20

Heavy duty professional models with thumb-activated pressure release. Designed for continuous use. Powerful ratcheting action minimizes worker fatigue or need to warm up caulk. User can regulate stroke to fit hand. Square rod may be rotated to expose new gripping surface and increase service life of tool.

Catalog Number	Application	Cartridge Capacity	Carriage Dia.	Size Lgth.	Net Weight
CG20	Spouted Cartridge	1/10 gal.	2"	8-1/2"	1 lb. 12 oz.
CG25	Spouted Cartridge	1qt.	2-5/8"	12"	2 lb. 12 oz.

Utility Caulking Guns



CG15



CG10

Catalog Number	Application	Cartridge Capacity	Carriage Dia.	Size Lgth.	Net Weight
CG10	Spouted Cartridge	1/10 gal.	2"	8-1/2"	1 lb. 1 oz.
CG15	Spouted Cartridge	1qt.	2-5/8"	12"	2 lbs. 1 oz.

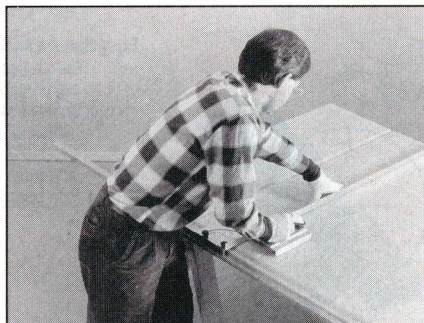
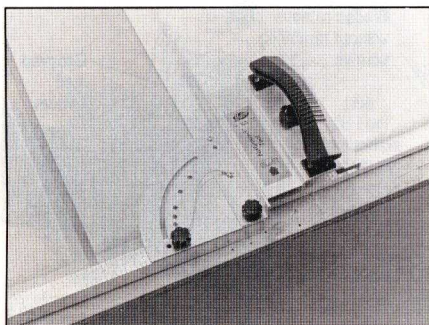
FasGroov™ FABRICATING SYSTEM

**For Safe, Fast,
Accurate Fabrication
of Fiberglass
Ductboard**



Lay out ductboard as you cut:

Simply align dimension on FasGroov Square with edge of previous cut and move FasGroov Tool across the board. The FasGroov Square eliminates the need for pre-marking cuts or calculating add-on dimensions.



FasGroov Tools glide through work and adjust easily for precise cuts in all brands of standard 1" ductboard. Scrap lifts cleanly out of groove to assure integrity of ductboard dimensions.

The FasGroov System also easily converts for left handed operation illustrated at top of page.



FasGroov Kits:

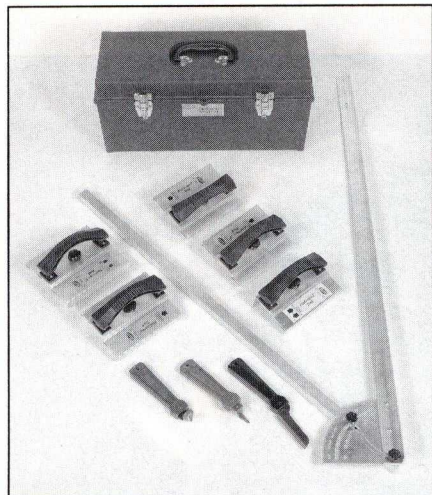
FasGroov Square and Tools are available as individual components or in kit form. The FasGroov System accommodates your choice of either shiplap or vee-groove fabrication methods. See the following pages for detailed descriptions and order numbers.



FIBERGLASS DUCT TOOLS AND ACCESSORIES

FasGroov™ Kits

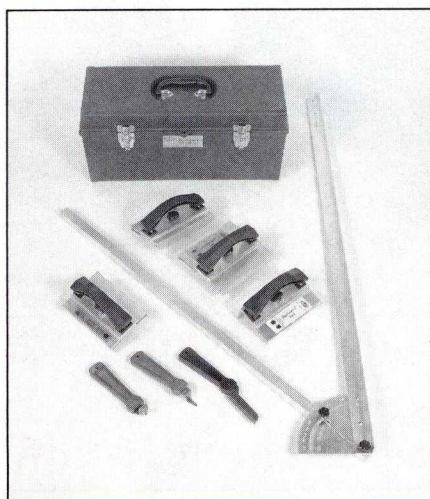
NOTE: FasGroov Tool identification incorporates both the numbering system of fabricating machines and the traditional hand tool color coding system.



#FGSLK SHIPLAP KIT

Kit consists of the following:

FGV1	#1 Tool	FGK	Duct Knife
FGV24	#2/4 Tool	FGM	Male Shiplap Knife
FGV3	#3 Tool	FGF	Female Shiplap Knife
FGV5	#5 Tool	FGC	Tool Case
FGV6	#6 Tool	SL5300	Instruction Manual
FGS	Square		



#FGVK VEE-GROOVE KIT

Kit consists of the following:

FGV1	#1 Tool	FGK	Duct Knife
FGV	Vee Tool	FGM	Male Shiplap Knife
FGV5	#5 Tool	FGF	Female Shiplap Knife
FGV6	#6 Tool	FGC	Tool Case
FGS	Square	SL5300	Instruction Manual



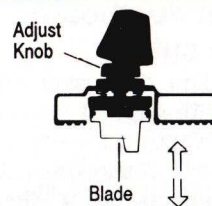
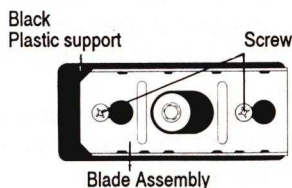
FasGroov™ Tools FEATURES

- **Easy, turn the knob, blade height adjustment.** Cut scrap lifts cleanly out of groove. Blades are also easily removed without removing screws.
- **Molded Plastic handles are ergonomically designed to fit angle of grip and reduce arm and hand fatigue on-the-job.**
- **Extruded, anodized, aluminum body is durable and lightweight.** Grooved surface on sled bottom facilitates easy sliding.

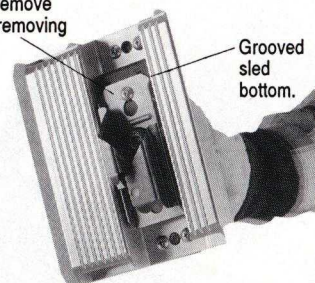


Easy turn the knob blade height adjustment compensates for thickness variations in standard 1 inch board.

U.S. PATENT
PENDING



Blades remove
without removing
screws.

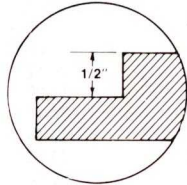


FIBERGLASS DUCT TOOLS AND ACCESSORIES

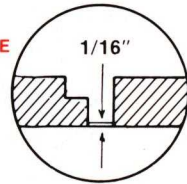


Catalog
Number Description

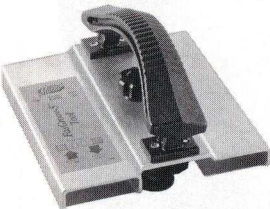
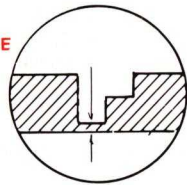
FGV1 #1 Female Shiplap Tool



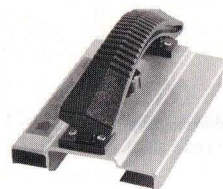
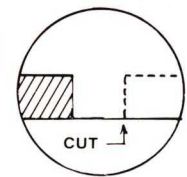
FGV24 #2/4 Right Hand Shiplap Tool



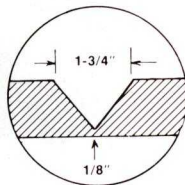
FGV3 #3 Left Hand Shiplap Tool



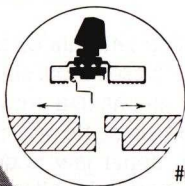
FGV5 #5 Staple Flap Tool



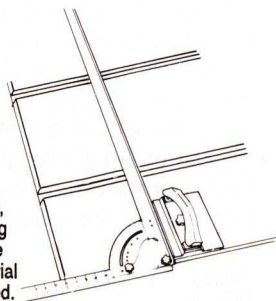
FGV Vee-Groove Tool



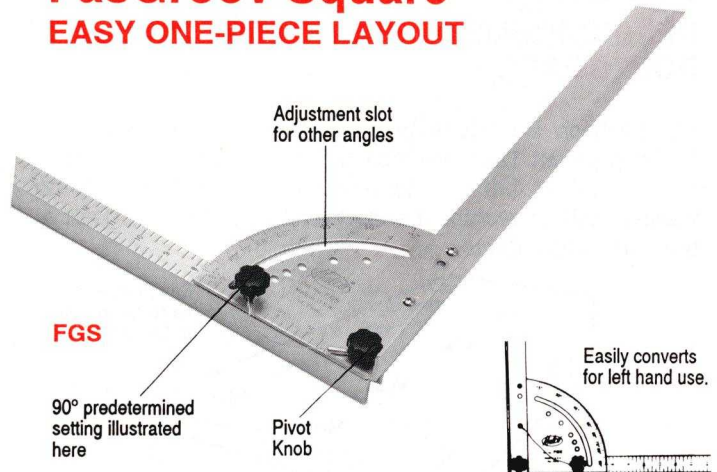
FGV6 #6 Shiplap Trim Tool



Use #6 Tool to shorten length of duct section, by measuring from outside edge of material to be scrapped.



FasGroov Square EASY ONE-PIECE LAYOUT



FGS

90° predetermined setting illustrated here

Adjustment slot for other angles

Pivot Knob

Easily converts for left hand use.

Permits fast and accurate layout without marking cuts or calculating add-on dimensions. Square quickly adjusts to any angle. Square and FasGroov Tools also easily convert for left handed fabrication.

Catalog
Number Description

FGS L Square

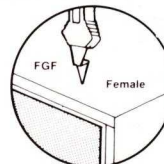
Single Blade Knives

FGK
Duct Knife



Use this point to cut fiberglass without tearing ductboard skin.

FGF



Female

FGM



Male

Single blade FasGroov Knives are safer to use and also feature comfortable molded handles. Male and Female Shiplap Knives can be used on closed duct sections. The FasGroov Duct Knife features a rounded scoring point to remove fiberglass from staple flap without tearing skin.

Catalog
Number Description

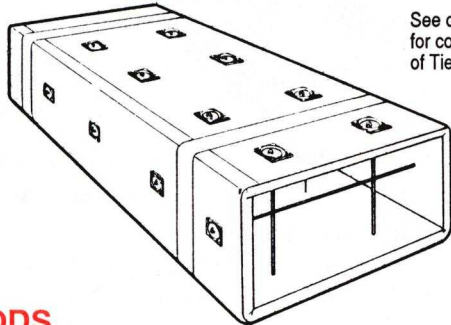
FGK Duct Knife
FGF Female Shiplap Knife
FGM Male Shiplap Knife



FIBERGLASS DUCT TOOLS AND ACCESSORIES

FasLoop™ REINFORCEMENT SYSTEM FOR DUCTBOARD

The FasLoop Duct Reinforcement System uses a series of FasLoop precut 12 gauge wire tie rods, a FasLoop bending-cutting tool for 190° rod termination, and FasLoop volcano washer/seals to restrict the duct wall deflection on positive pressure supply ducts.



See chart, right
for correct spacing
of Tie Rods.

TIE RODS

Pre-cut length of 12 ga. wire looped on one end.

Catalog Number	Inside Duct Dimension*	Catalog Number	Inside Duct Dimension*
FL10	10"	FL42	42"
FL12	12"	FL48	48"
FL14	14"	FL54	54"
FL18	18"	FL60	60"
FL24	24"	FL66	66"
FL30	30"	FL72	72"
FL36	36"		

For in-between sizes, cut off excess wire with FL1 tool: example - subtract 1" from FL12 rod to fit 11" duct.

WASHER/SEALS

FLWS

Volcano washers seat flush to surface for maximum adhesion of seal. Washers are available with or without pre-applied Malco seals. Washers with pre-applied seals (FLWS) are fast installing and assure a proper seal around hole puncture and wire to prevent air leakage and whistling.

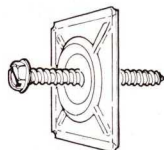


washer with seal
Patent No. 4237940 & 4315361

Catalog Number	Description
FLW	2-1/2" x 2-1/2" x .030" galvanized reinforced volcano washer with 1/8" hole diameter.
FLWS	As above with pre applied seals, 3/4" x 3/4" x 1/8"

Reinforcement Washer

Use with #8 screw for fastening sheet metal components to fiberglass duct.



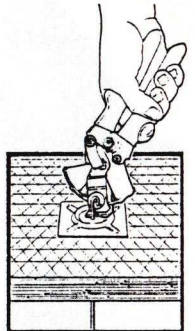
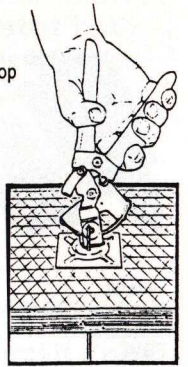
Catalog Number	Description
RW732	2-1/2" x 2-1/2" x .030" galvanized reinforced volcano washer with 7/32" hole diameter.

RW732

TIE ROD SPACING TABLE

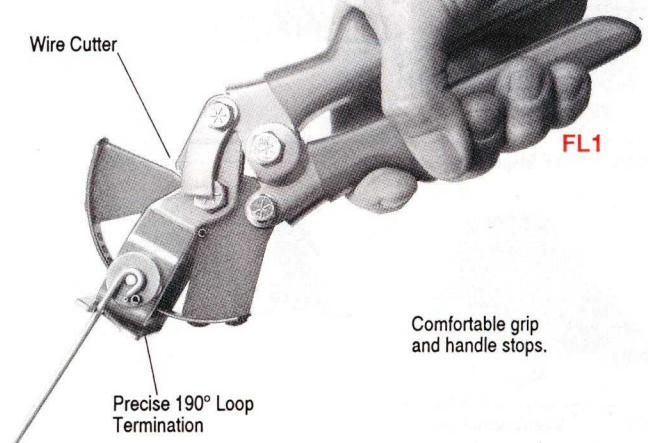
Static pressure, in WG	Duct span, in.	Type 475 duct board	
		Tie rods across span	Maximum tie rod spacing, in.
0 to 1/2	0-30	*	*
	31-32	1	24
	33-36	2	24
	37-42	2	24
	43-48	2	24
	49-60	3	24
	61-64	3	24
	65-80	4	24
	81-96	5	24
1/2 to 1	0-24	*	*
	25-30	1	24
	31-32	1	24
	33-36	2	24
	37-48	2	24
	49-64	3	24
	65-80	4	24
	81-96	5	24
1 to 2	0-15	*	*
	16-18	1	24
	19-24	1	24
	25-32	1	16
	33-48	2	16
	49-60	3	16
	61-64	3	16
	65-80	4	16
	81-96	5	16

FL1
FasLoop
Tool



FasLoop™ Tool

Wire Cutter



FL1

Comfortable grip
and handle stops.

Precise 190° Loop
Termination

Tool quickly and easily forms loop termination in 12 gauge wire to complete tie rod installation. Nose of tool stays flush against work, only the rack and pinion mechanism moves. Rotor forms a precise 190° loop so that air pressure will not spread loop open. Wire cutting feature on upper jaw is designed to trim excess rod length cleanly and accurately. All steel construction. Compound leverage mechanism and vinyl cushion grips with handle stops for easier, more comfortable operations.

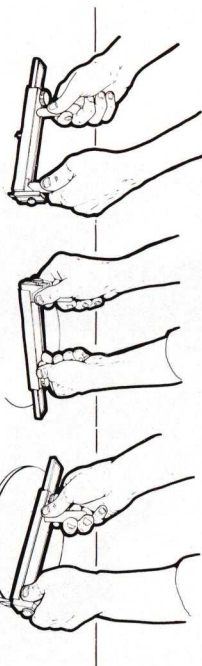
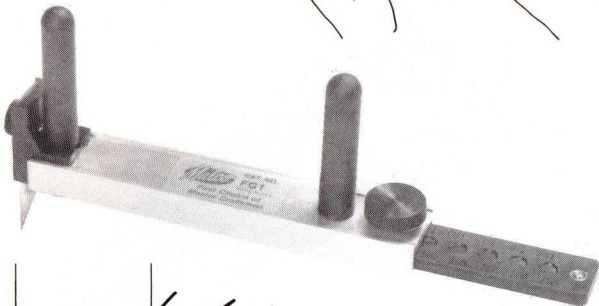
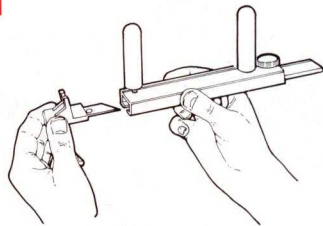
Catalog Number	Description
FL1	Wire bending-cutting tool

FIBERGLASS DUCT TOOLS AND ACCESSORIES



FIBERGLASS DUCT Hole Cutter

FG1



Cuts 4" to 20" diameter holes in 1" fiberglass ductboard. Operation is fast and easy. Cutter rotates counter clockwise on a center pivot punch. The model FG1 cuts flush to ductboard surface utilizing a standard utility knife blade. (For best results, use Malco No. 205KBH or KBH5 blades). Durable extruded aluminum frame and engineering grade molded plastic and nylon components. Blade holder stores in body for safety and to protect blade from damage when not in use.

Catalog Number	Description	Net Weight
FG1	Fiberglass Duct Hole Cutter	7-1/2 oz.

DOUBLE EDGE Duct Knife

DK1



Use as an aid in fabricating fiberglass duct. Long life, double edge blade facilitates easy piercing for inside cuts. Double edge also ideal for tapping into and trimming flex duct. Resharpenable. Made of heavy cutlery steel with comfortable hickory wood handle.

Catalog Number	Description
DK1	Double Edge Duct Knife

LEATHER KNIFE SHEATH

TP301



Catalog Number	Description
TP301	Sheath for DK1 Duct Knife. (Knife not included)



FIBERGLASS DUCT TOOLS AND ACCESSORIES

ADJUSTABLE, HIGH LEVERAGE Tensioning Tool

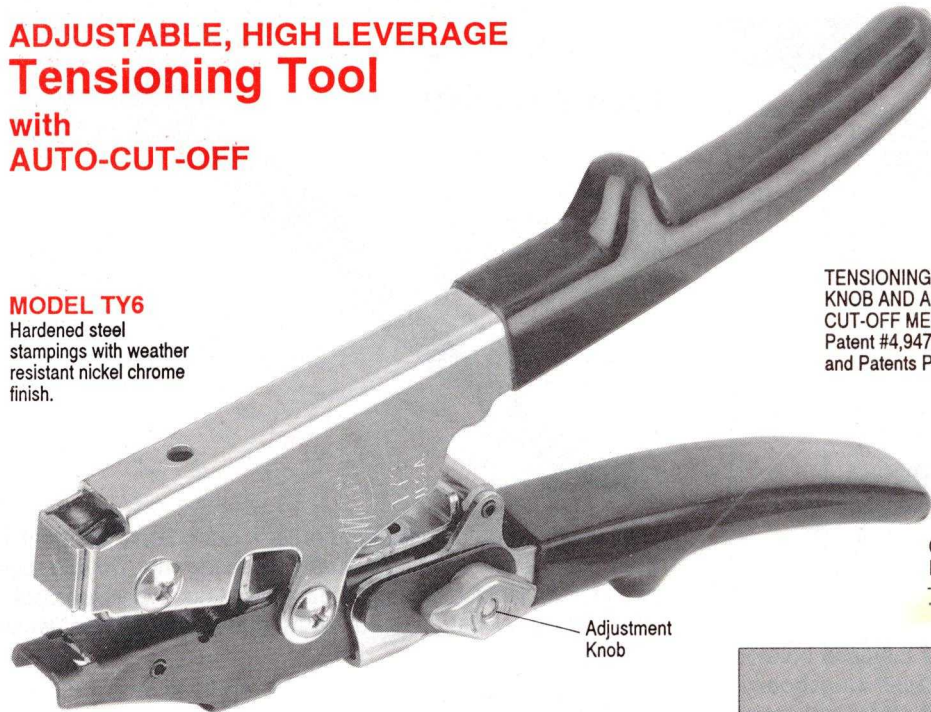
with
AUTO-CUT-OFF

MODEL TY6

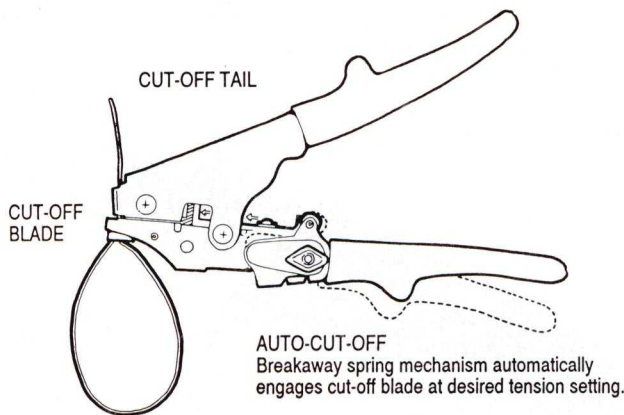
Hardened steel
stampings with weather
resistant nickel chrome
finish.

Vinyl cushion grips with
hand stops

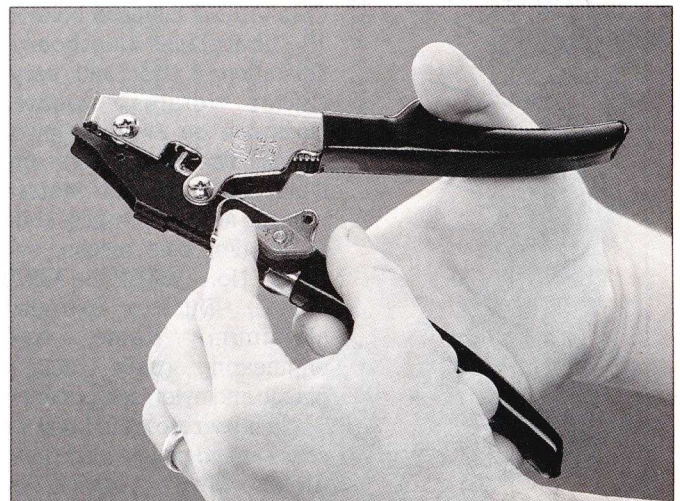
TENSIONING ADJUSTMENT
KNOB AND AUTOMATIC
CUT-OFF MECHANISM.
Patent #4,947,901
and Patents Pending.



Adjustment
Knob



Catalog Number	Description	Length	Net Weight
TY6	High Leverage Tie Tool	8 1/2"	15 oz.

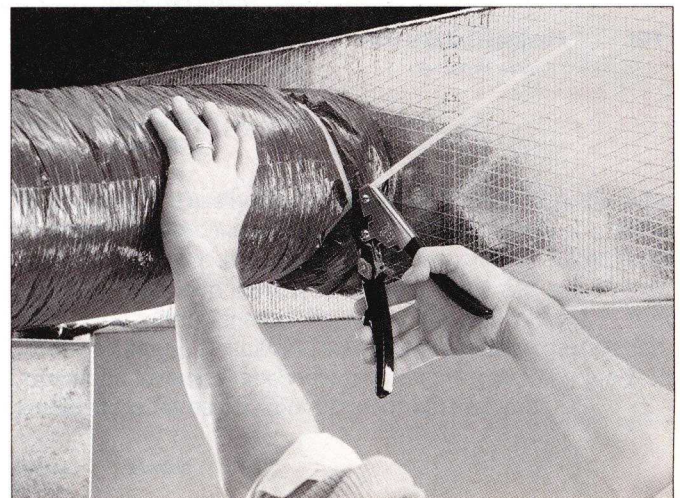


Turn knob clockwise to increase tension and counterclockwise to decrease tension. Do not over-tighten. Adjust knob only with fingers to avoid breaking ties before cut-off occurs.

For continuous use on-the-job. The TY6 Tensioning Tool is designed for a heavy user of nylon ties. An adjustment knob allows installer to set desired tension for securing flex duct to a take-off collar. When the tie is tight, a breakaway spring mechanism releases the tool's lower handle, causing the blade to engage and automatically flush cut off the excess tail of the nylon tie. No extra operation for manual trimming is required. Nylon tie installation is fast and easy with the TY6.

Operating the TY6 is easy on the installer too! Contoured handles, with stops, are easier to grasp. Also, smooth lever action and vinyl cushion grips minimize hand and arm fatigue on big jobs.

The TY6 features a hardened steel body, long wearing, serviceable parts and a weather resistant nickel chrome finish, to assure many years of dependable service.



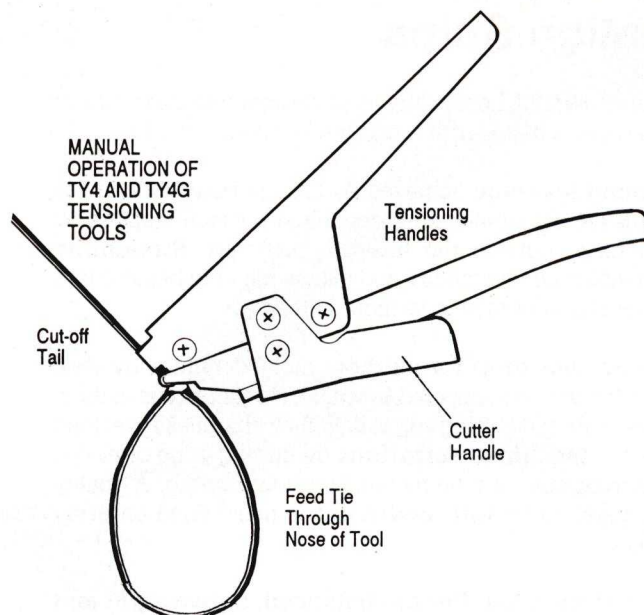
FIBERGLASS DUCT TOOLS AND ACCESSORIES



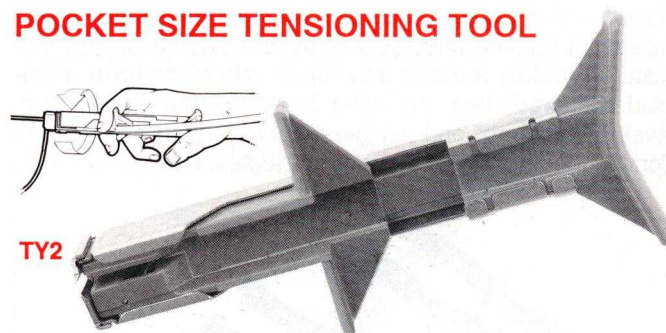
MANUAL CUT-OFF Tensioning Tools

Patent Pending

MODEL TY4



POCKET SIZE TENSIONING TOOL



These rugged designed lever action tie tools feature long wearing, serviceable parts, including industrial grade bolts and a unique notched gripper. The cut-off blade is easily sharpenable or replaceable in the field. A clean black baked on enamel wrinkle finish will also weather the elements and stand up to abuse on-the-job. Comfortable handles reduce the pinch point area, and gray vinyl cushion grips are available on the model TY4G.

Moderate hand pressure and pumping motion are all the effort required to tension down tie. Cut off excess tail with 1/2 turn twist of tool.

Catalog Number	Description	Length	Net Weight
TY4	Manual Cut-Off Tie Tool	6"	10 oz.
TY4G	Manual Cut-Off Tie Tool /Gripped	6"	11 oz.

Catalog Number	Length	Net Weight
TY2	5"	3 oz.

ADJUSTABLE Nylon Ties

Use Malco Nylon Ties to install flexible duct to take-offs, or secure bundles, up to 15" diameter. Made of 100% nylon, Malco ties offer a minimal tensile strength of 175 pounds.

Catalog Number	Length	Adjustable Diameter
TY34	34"	3/16" to 10"
TY48	48"	3/16" to 15"



METAL SNIPS

Aviation Snips

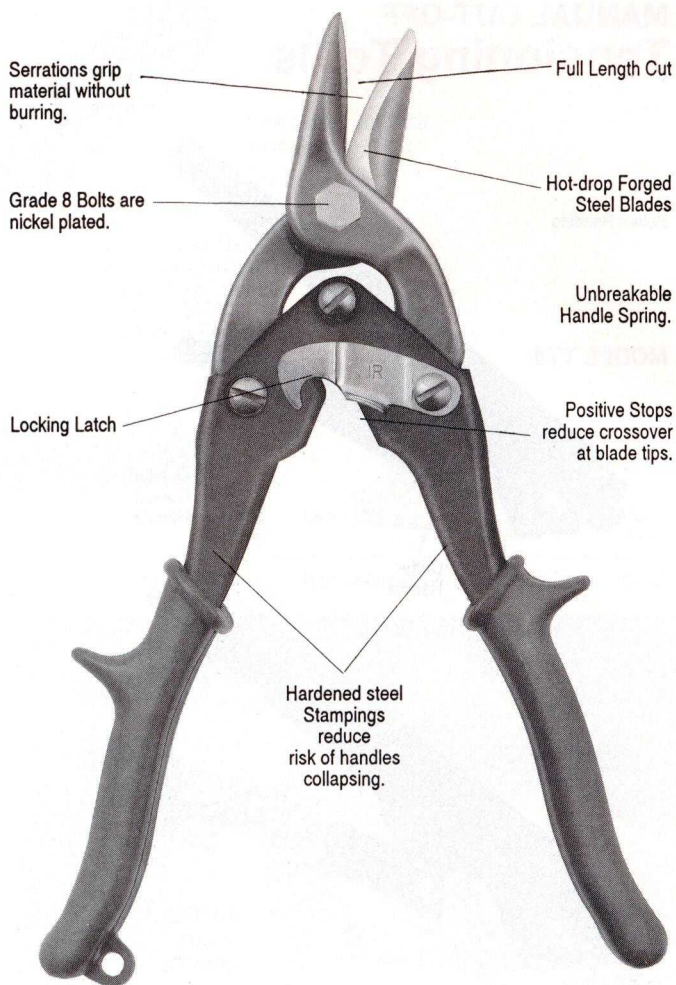
These are powerful, heavy duty snips designed to make cuts in hardened sheet metal with a minimum amount of effort.

Compound leverage achieved by linkage between handles and blades substantially increases initial pressure applied by user to make cuts in the heaviest materials. **Streamline design** aids maneuverability and allows material being cut to back over shoulder of snip without catching.

Blades are hot-drop forged from molybdenum alloy steel and heat treated and tempered to withstand continuous cutting. Accurately ground cutting edges hold their sharpness over long service life. **Machined serrations** on cutting edge of blades achieve maximum grip on material without burring. A quality control standard for **full length cut** is maintained on every Malco snip.

Precision aligned, **handles are balanced, lightweight and spring actuated** for fast cutting action. Hardened steel stampings resist collapsing. Design also features **positive stops** to reduce crossover at blade tips. And an **unbreakable handle spring** means no on-the-job replacements required, ever!

Strong nickel plated, grade 8 bolts are added assurance of maximum uninterrupted service life of these snips. All snips feature **locking latches** and slip-on **vinyl cushion grips**. Blades are polished and oiled for protection against rust. Available for right and left hand curve cutting as well as a combination design for straight or irregular cuts.

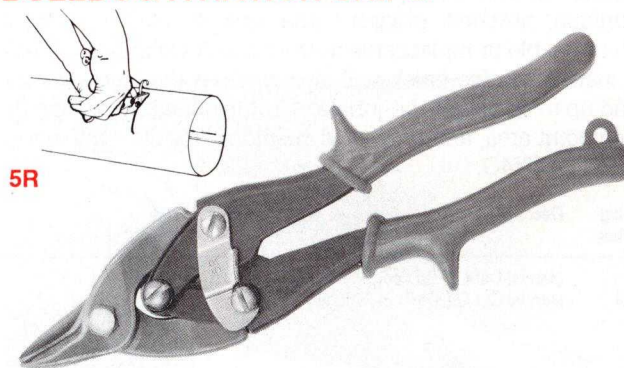


Catalog Number	Cutting Applications	Grips	Length	Net Weight
1R	Snip cuts left	red	10"	13½ oz.
2R	Snip cuts right	green	10"	13½ oz.
3R	Combination cuts straight, right and left.	yellow	10"	13½ oz.

SNIP REPLACEMENT SPRINGS

Catalog Number	Description
1RFR	Spring for 1R, 3R & 5R snips
2RFG	Spring for 2R snip

BULLDOG AVIATION SNIPS



Specifically designed for bulldog notching several layers or trimming extra-heavy stock. Comes with vinyl grips for greater cutting ease.

Catalog Number	Cutting Application	Grip	Length	Net Weight
5R	Notching and trimming	red	9"	14 oz.

METAL SNIPS



OFFSET CUTTING Zip Snips®



Forged Steel
Blades

For continuous cuts in sheet metal stock, round and square duct, stone pipe, aluminum and steel siding. Offset design allows cut material to flow unobstructed past the cutting blades and user's hand. Forged steel blades are matched to close tolerances to prevent slippage at sharp angles or in flexible materials. Highly maneuverable Zip Snips® are ideal for flush cuts and for cutting any angle - contour hole or pattern configuration. Compound leverage with roller bearing action assures maximum cutting power at blade tips. A handy pinch-point wire cutter is located above blade fulcrum. Zip Snips® are available for right or left hand straight and curve cutting. Curved handles and vinyl cushion grips provide comfortable operation.

Catalog Number	Cutting Application	Grips	Length	Net Wt.
ZS1R	Snip cuts sharp left angles, straight line, and 5" dia. right circles.	red	9"	15 oz.
ZS2R	Snip cuts sharp right angles, straight lines, and 5" dia. left circles.	green	9"	15 oz.

OFFSET Double Cut Snip



4R

Double cut design is ideal for cutting metal pipe or duct. Double cut design removes a curled strip of metal from path with virtually no surface distortion. Double cut also features adjustable taper ground outer blade. Offset handle design aids maneuverability and also protects user's hands.

Cat. No.	Cutting Application	Grips	Length	Net Weight
4R	Straight inside cuts	yellow	8-1/2"	14 oz.



METAL SNIPS

Andy™ Aluminum Snips

**Strong and
Lightweight
Aluminum
Handles with
Inlaid Steel
Blades**



M14

M12

Superior quality, heavy duty snips are only 1/3 the weight of steel types, and give many more years of service. Comfortable, sleek contour aluminum handles have reinforcing ribs to duplicate the strength of steel. Handles will not spring when cutting heavy gauges of sheet metal. Inlaid blades are supreme cutlery grade moly steel, electronically heat treated and tempered for continuous use. Precision ground, beveled cutting edges stay sharp longer and make pattern cutting, even circle cuts, an easy job. Blades are resharpenable and also easily replaced when necessary. Metallic gray, baked enamel finish gives these snips a professional look to match their professional standard of performance.

Catalog Number	Length of Cut	Overall Length	Net Weight
M12	3"	12"	15-1/2 oz.
M14	3-1/2"	14"	1 lb. 8 oz.

REPLACEMENT BLADES

M12RB	Blade set and rivets for M12 Snip
M14RB	Blade set and rivets for M14 Snip

TP201



SNIP HOLSTER

TP201	Snip Holster see page 83
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Forged Steel Snips



M9

M29

M15

Smooth blade action cuts all sheet metal from soft aluminum to hardened shim stock. Entire snip is hot-drop forged from durable molybdenum steel. Snips are hardened, tempered and precision ground to hold cutting edge longer than other conventional snips. Slim rounded contour over blade fulcrum aids maneuverability. Chamfered outside face of cutting edges on combination snip facilitates curve cutting. Snips are high polish finish with blue enameled handles.

Catalog Number	Length of cut	Overall Length	Net Weight
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Regular Pattern Snip (cuts straight)

M9	3"	12-1/2"	1 lb. 8 oz.
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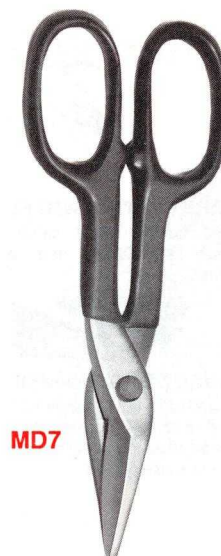
Bulldog Pattern Snips (cuts straight)

M15	2-1/2"	16-1/2"	3 lb. 12 oz.
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Combination Snip (cuts straight & curves)

M29	3"	12"	1 lb. 6 oz.
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Circular Duckbill Snips



MD7

MD10

MD12

Maneuvers and cuts easily to very tip of blade. Cuts sheet metal, aluminum and steel siding, plastics and other thin materials without tearing or catching. Hot drop forged from the finest quality high carbon tool steel. Comfortable vinyl coated handles.

Catalog Number	Length of cut	Overall Length	Net Weight
MD7	1-3/4"	7"	8 oz.
MD10	2-1/2"	10"	10 oz.
MD12	3"	12-1/2"	1 lb. 10 oz.

Electric Sheet Metal Shear 16 GAUGE CAPACITY



SMS16K

CAPACITY, GAUGE	Intermittent	Continuous
Mild Steel	16 (.060")	18 (.048")
Most Stainless	18 (.048")	20 (.035")
Most Aluminum	14 (.075")	16 (.060")
Strokes/min.	5300	
Cutting Speed (Mild Steel)	16 ga. = 16 feet per min. 20 ga. = 40 feet per min. 24 ga. = 60 feet per min.	
Min. Radius	1/2"	
Motor Rating	115V AC	
Net Weight	3 lbs.	
Length	8 inches	
Cord Length	6 feet	



Meets OSHA requirements and ANSI standards.

Precision ground blades float effortlessly through metal. Simple blade adjustment for depth and clearance—no shims. Cuts straight lines or curves as tight as 1/2" radius to right or left with ease. Highly visible blade action allows precise pattern cutting. Inside cuts may be started by inserting the forged shoe through a 1 1/2" hole. Supplied with setting — sharpening gauge, adjustment wrench and extra set of upper and lower blades.

Catalog Number	Description
SMS16K	Shear as described above with carrying case and accessories
SMS1670	Replacement Blades (set)



TUBING TOOLS

Tube Cutters

TC312



SPARE CUTTING WHEEL
Spare cutting wheel carried under retractable, locking reamer.

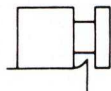


RETRACTABLE REAMER
Fold away tool steel reamer with turned cutting edge removes inside burrs cleanly. Filing surface removes outside burrs.

TC274



BALL BEARING FEED
Ball bearing, enclosed feed mechanism provides easier operation, reduces friction.



FLARE CUT-OFF GROOVE

Groove in roller reduces tube loss when cracked flare is removed.

For hard or soft copper tubing. Makes clean, right-angle cuts with no burrs or chips to clog tubing. Features ball bearing feed, flare cut-off groove, retractable reamer and spare cutting wheel. Rugged aluminum alloy body is designed for handling ease.

Conforms to federal specification GGG-C771d 1-31-64. Type II, Class 1, Style B.

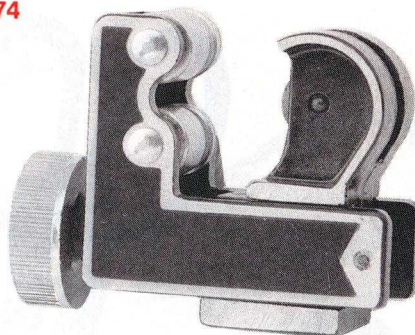
Catalog Number	Tubing O.D.	Nom. Size
TC274	1/8 to 1-1/8" (4-28 mm)	1/8 to 1"
TC312	1/4 to 1-5/8" (7-41 mm)	1/8 to 1-1/2"

REPLACEMENT CUTTING WHEELS

Catalog Number	Description
RW274	Cutting wheel for TC274, TC312, TC174
75046	Cutting wheel for stainless fits TC274, TC312 and TC174

'Big Imp™' Tube Cutter

TC174



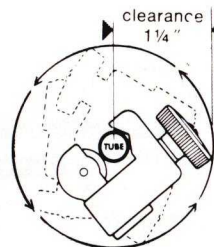
Tubing pivots on double rollers

Compact cutter requires only 1-15/16" clearance, yet accommodates tubing from 3/8" to 1-1/8" O.D. (1/4" to 1" Nominal). Cuts copper, aluminum or brass, thin wall tubing. Lightweight aluminum alloy body resists rust. Spare cutter wheel included with tool.

Catalog Number	Tubing O.D.	Net Weight
TC174	3/8" to 1-1/8" (10 - 28 mm)	5-1/4 oz.

'Imp™' Tube Cutter

TC127



Tubing pivots on rollers

A handy tube cutter for cramped spaces so often encountered on installations or repairs. Only 1-11/16" x 1-15/16" x 7/8". Weighs only 2-1/2 oz. A mere 1-1/4" clearance is all that is needed to operate the "Imp".

Conforms to federal specification GGG-C771d, 1-31-64. Type 2, Class 2, Amendment 2.

Catalog Number	Tubing O.D.
TC127	1/8 to 5/8" (4-15 mm)

REPLACEMENT WHEEL

Catalog Number	Description
RW127	Cutting wheel for TC127

SURE GRIP Tube Slicer

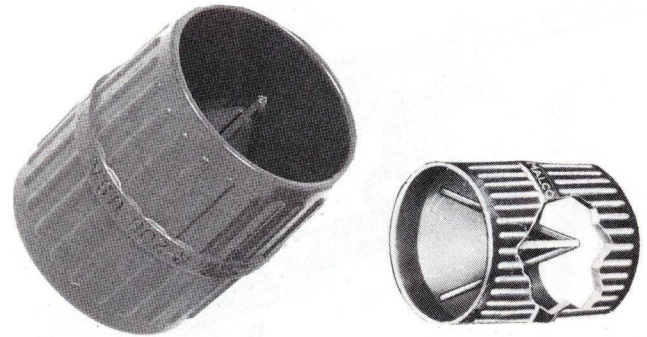


TC400

Produces cuts in ABS, PVC, rubber and fabric reinforced hose up to 1" I.D. Rigid, durable nylon handle design provides sufficient leverage when cutting so that only moderate hand pressure is required. Cutting blade is resharpenable and replaceable.

Catalog Number	Description	Net Weight
TC400	Plastic tube slicer	5-1/4 oz.
RB400	Replacement blade	--

Reamer-Deburring Tool

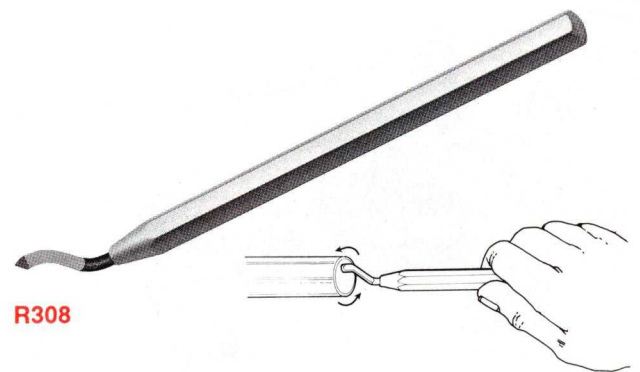


R208

For copper, aluminum and brass tubing. Reams both inside and outside edges of tube with 3 hollow ground tool steel blades. Tool cuts when turned both clockwise and counterclockwise. Fluted body is shaped to fit comfortably in palm.

Catalog Number	Tubing O.D.	Nom. Size
R208	3/16 to 1-1/2"	1/8 to 1-1/4"

POCKET SIZE Swivel Reamer



R308

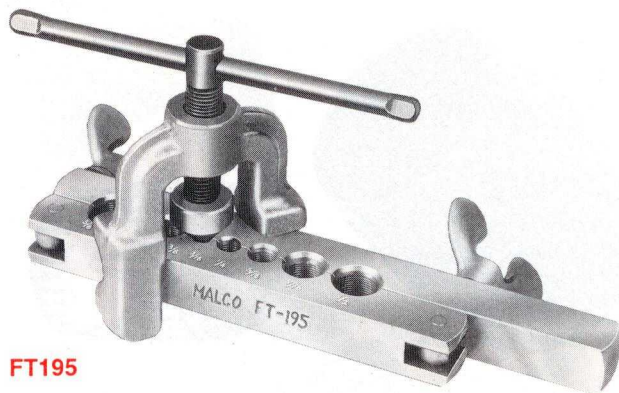
Pocket size reamer deburrs nominal 1/4" or larger tubing and fittings. Freely rotating, hardened steel blade holds its edge in both copper and ABS/PVC plastic. Under 6" overall length. Bronze anodized handle features handy pocket clip.

Catalog Number	Description	Net Weight
R308	Pocket size, swivel reamer	1 oz.



TUBING TOOLS

Flaring Tools BAR CLAMP TYPE



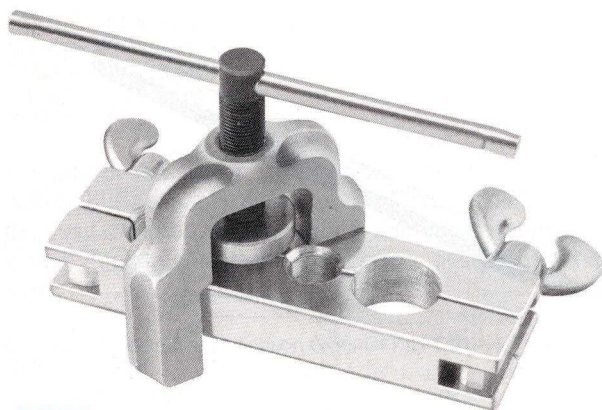
FT195

Flares 7 sizes of soft copper, aluminum and brass tubing. Forged steel slip-on yoke and hardened flaring bar. Yoke design permits flaring where there is little space between nut and tube end. Positive clamping of bars prevents tube slippage. Hard chrome-finished swivel-type cone makes better flares with less effort. Satin finish nickel-chrome plated.

Conforms to federal specification GGG-G-451a, 6-13-68. Type 2, Class 2, Style A.

Catalog Number	Tubing O.D.	Nom. Size
FT195	3/16, 1/4, 5/16 3/8, 7/16, 1/2, 5/8"	1/8, 1/4" 3/8, 1/2"

1-1/8" O.D. CAPACITY

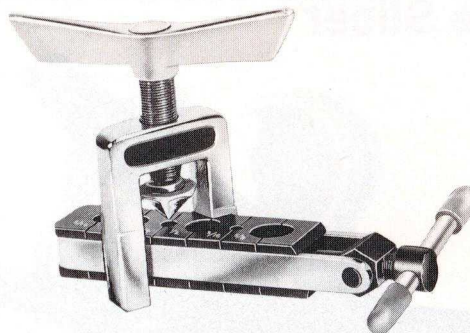


FT203

Flares 4 sizes of soft copper, aluminum and brass tubing. Forged steel slip-on yoke and hardened flaring bar. Positive clamping of bars prevents tube slippage. Swivel type cone makes clean, accurate flares with less effort. Body of tool is satin finish nickel-chrome plated to resist rust.

Catalog Number	Tubing O.D.	Nom. Sizes	Net Weight
FT203	5/8", 3/4", 7/8", 1-1/8"	1/2", 5/8", 3/4", 1"	3 lbs. 12 oz.

DIE BLOCK TYPE



FT500

For soft copper, aluminum and brass tubing. Faceted, hard chrome finished cone rolls out perfect 45° flares above die block - then automatically burnishes flare face. Handy slip-on yoke permits use in tight quarters. Movable dies allow tubing to be slipped in easily. Heat treated dies grip tubing without scoring and the original tube wall thickness is maintained at base of flare. Large flat handle. Precision threads. Satin chrome and black nickel finish.

Catalog Number	Tubing O.D.	Nom. Size
FT500	3/16, 1/4, 5/16 3/8, 1/2, 5/8"	1/8, 1/4, 3/8, 1/2"

"Gripper" Flaring Tool UNIVERSAL - METRIC/INCH



Insert tubing into adjustable opening of tube holding assembly. Position end of tubing approximately 1/8" above top surface of holder.

Tighten clamp screw approximately 1/2 to 3/4 of a turn beyond free travel position to secure tubing.

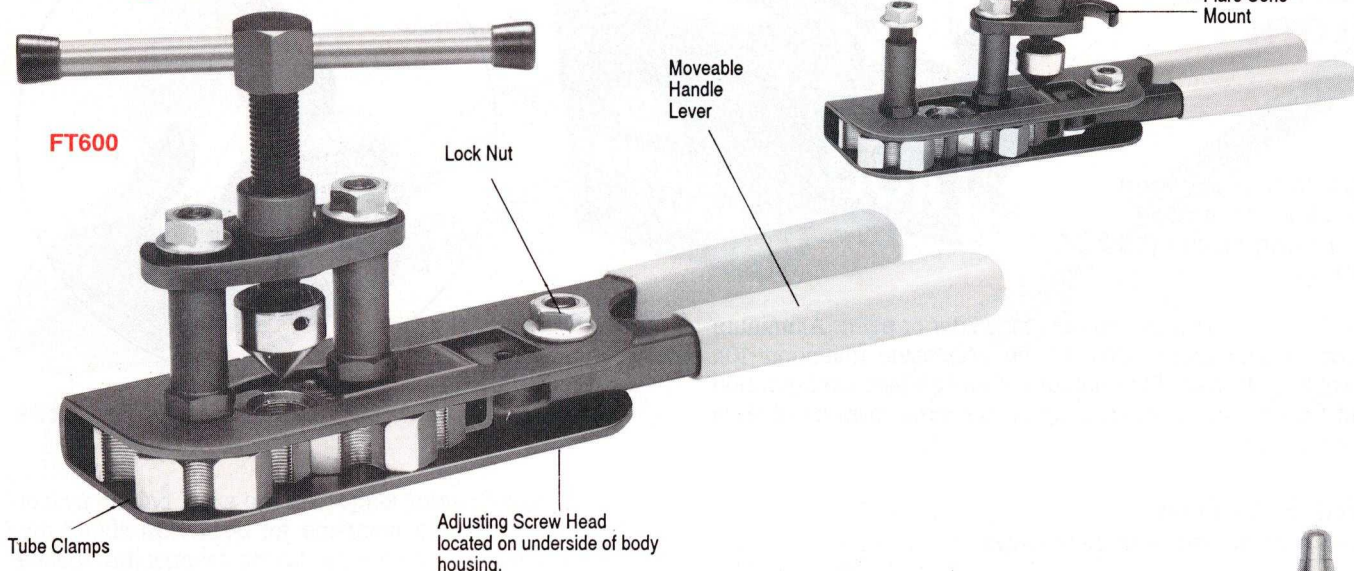
FT525

Oil cone. Slip yoke over tube holding assembly centering on tubing. Twist yoke clockwise to lock in position. Proceed to flare.

Adjustable single opening holds sizes 3/16 to 5/8" O.D. (5 to 16 mm O.D.) For soft copper, aluminum and brass tubing. The "Gripper" has a unique self-adjusting single opening that adjusts to and holds any size tubing within the range of 3/16 thru 5/8" O.D. Faceted, hard chrome finished cone rolls out and burnishes perfect 45° flare. Original wall thickness is maintained at base of flare. Self centering slip-on yoke permits use in tight places. Extra leverage, large handle and precision threads on feed screw make flaring almost effortless. Satin chrome and black nickel finish add to tool life and clean, professional appearance.

Catalog Number	Tubing O.D.	Flare
FT525	3/16 to 5/8" (5-16 mm)	45°

ADJUSTABLE Flaring Tool



A rugged tool designed to flare a wide variety of tubing metals and sizes. Single lap flares are produced in brass, aluminum, copper and mild steel. Unique swing-away flare cone mount and moveable handle lever affords easy set up. Adjusting screw and lock nut assembly allows user to set desired gripping pressure of handle lever. Hardened steel tube clamps provide positive grip to prevent tube slippage. All steel construction with vinyl cushion grips.

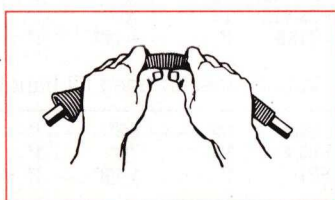
Catalog Number	O.D. Size	Nom. Size
FT600	3/16, 1/4, 5/16, 3/8, 1/2, 5/8"	1/8, 1/4, 3/8 1/2"

Tube Benders



These budget priced tools are for bending soft tubing to any shape without collapsing walls. The special spring steel is nickel finished. One end is flared for quick tube insertion and removal. The 5 convenient sizes can be used economically for many jobs where a large labor force is involved.

Catalog Number	Tubing O.D.
TB1024	1/4"
TB1026	3/8"
TB1028	1/2"
TB1020	5/8"
TB1022	3/4"
TB102K	Set of above



Swaging Tools



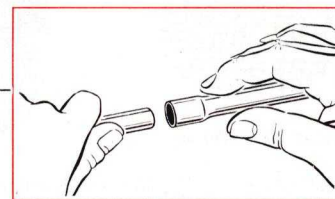
ST930 ST938 ST936 ST935 ST934 ST94

Use these tools for making tubing connections without fittings. Enlarge end of tube, insert another tube of original O.D. size and solder together like a sweat fitting. Both punch-types made of durable case hardened tool steel.

INDIVIDUAL SWAGING PUNCHES

Available in 6 sizes. Hexagon stock allows easy removal of punch.

Catalog Number	O.D. Size	Nom. Size
ST934	1/4"	1/8"
ST935	5/16"	-
ST936	3/8"	1/4"
ST938	1/2"	3/8"
ST930	5/8"	1/2"



COMBINATION SWAGING PUNCH

Three sizes in one tool. Knurled stock for easy removal of punch.

Catalog Number	O.D. Size	Nom. Size
ST94	1/2, 5/8, 7/8"	3/8, 1/2, 3/4"

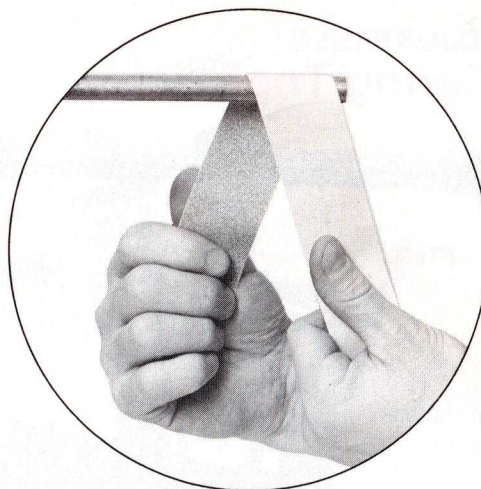


TUBING TOOLS

Plumbers Roll

ABRASIVE CLOTH

Specially processed for cleaning and preparing solder joint fittings.



Creates a bite on metal surface for solder or paint. Aluminum oxide cutting grain rates 9.2 on MO scale (diamond=10). Flexible cloth back fits contours of any surface configuration and hard to reach areas. Long lasting urea resin bonding is water resistant.

WHITE CLOTH

Open coat, 120 grit aluminum oxide.

Catalog Number	Description
AC110	1-1/2" x 10 yd. white roll
AC125	1-1/2" x 25 yd. white roll

BROWN CLOTH

Closed coat, 120 grit aluminum oxide.

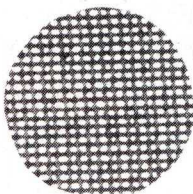
AC310	1-1/2" x 10 yd. brown roll
AC325	1-1/2" x 25 yd. brown roll

RED CLOTH

Closed coat, 120 grit aluminum oxide.

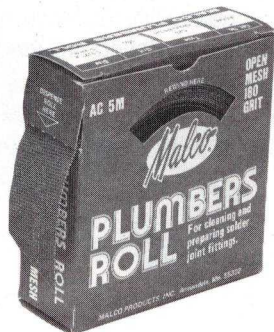
AC410	1-1/2" x 10 yd. red roll
AC425	1-1/2" x 25 yd. red roll

ABRASIVE MESH



Actual Size of Weave

180 grit open mesh cleans with both sides, requires only light pressure, lasts twice as long as cloth. Scrim is nylon and rayon weave. Waterproof varnish adhesive bonding. Mesh will not clog, load or break down.



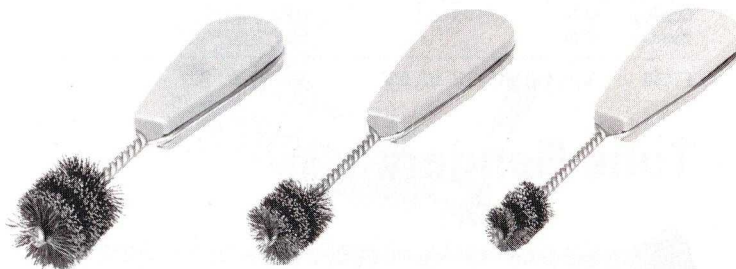
Catalog Number	Description
AC5M	1-1/2" x 5 yd. mesh roll

COPPER TUBE Fitting Brushes

FB1SS

FB3/4SS

FB1/2SS



New stainless steel fill. Comfortable plastic handle.

For cleaning and burnishing all types of copper tubing. Assures strong, tight connections. Stainless steel, crimped fill with comfortable flat plastic handle.

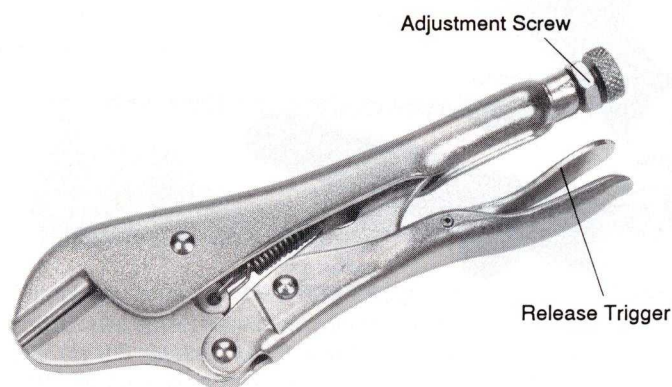
Catalog Number	Nom. Tube Diameter	Actual Diameter	Brush Length
FB1/2SS	1/2"	5/8"	1"
FB3/4SS	3/4"	7/8"	1"
FB1SS	1"	1-1/8"	1"

Carbon steel crimped fill handle and stem

FB1/2	1/2"	5/8"	1"
FB3/4	3/4"	7/8"	1"
FB1	1"	1-1/8"	1"



LOCKING STYLE Pinch-Off Tool

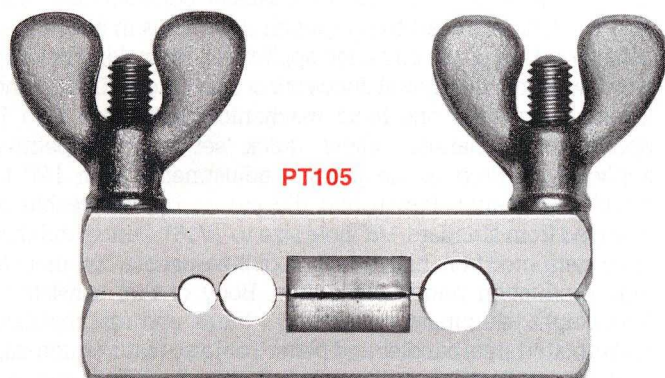


PT205

Pinches off and locks on soft copper tubing instantly. Leaves both hands free. Ideal for emergencies - no shut-off valves needed! Adjustment screw applies just the right amount of pressure for various tube diameters. Press the release trigger and the jaws snap open. Made of high grade alloy steel and heat treated for maximum toughness and durability. Nickel plated.

Catalog Number	Jaw Thickness	Throat Depth	Length	Net Weight
PT205	1/4"	1"	7"	15 oz.

Pinch-Off Tool



PT105

Temporarily closes off soft copper, aluminum or steel tubing so no liquid or gas passes sealed part. Disconnect line while making repairs without loss of liquid or gas. Also use tool to reopen tubing and round back to shape.

Catalog Number	Tubing O.D.
PT105	1/4", 3/8", 1/2"

Dial Thermometers



DT220

DT160

Dial faces are graduated in 2° increments. For precise readings (+ or - 2° accuracy) in gases, solids and liquids. Applications include air conditioning and heating ducts, refrigeration appliances and commercial freezer cases and coolers. External recalibration allows easy reset in just seconds. Model DT160 thermometer measures a temperature range from -40° to 160°F. DT220 thermometers's range is 0° to 220°F. Plastic dial covers are watertight. Compact 5" long stainless steel stem makes these thermometers handy on-the-job. Both thermometers feature protective plastic sheaths with pocket clip.

Catalog Number	Description	Net Weight
DT160	-40° to 160° F	1 oz.
DT220	0° to 220° F	1 oz.



DRYWALL TOOLS

Punch Lock Stud Crimper

SECURES ANY WIDTH STUD AND RUNNER WITHOUT SCREWS OR OTHER FASTENERS.

PL1

Unique Punch and die are easily replaceable



Powerful compound leverage design

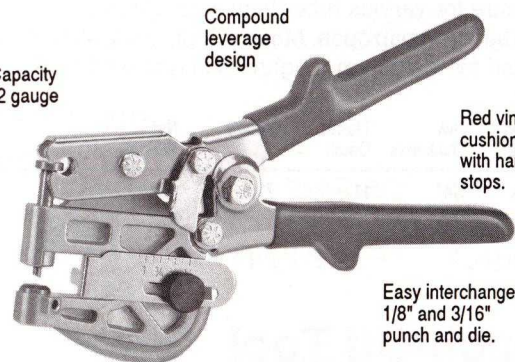
Black vinyl cushion grips with handle stops.

1/8" - 3/16" Hole Punch ADJUSTS FROM 1/4" TO 1-1/8" DEPTHS

Maximum capacity
22 gauge
stud and runner

Maximum Capacity
(3 layers) 22 gauge

HP18K



Compound leverage design

Red vinyl cushion grips with handle stops.

Easy interchangeable
1/8" and 3/16"
punch and die.

Compound leverage increases mechanical advantage nearly 7 to 1. Simply squeeze handles together with one hand while holding stud in place. A unique punch and die shape creates a rectangular crimp, bending over thicknesses of channel and stud at the same time to form a sturdy bond. Crimp is always the proper strength and resists stress from any angle. Spring return handles snap the punch back in a ready position to go on to the next stud or fastening point. Lightweight and compact size allows the user to work overhead or in tight quarters with ease. Tool fits inside the smallest stud and runner. Punch and dies are constructed from high quality tool steel and are easily replaceable. Body of tool consists of an aluminum die cast 'C' frame and rust resistant, nickel plated steel handles and parts. Tool also features comfortable non-slip vinyl grips and may be carried in hip pouch or stored in tool box.

Catalog Number	Description	Throat Depth	Capacity (Sheet Metal)	Net Wt.
PL1	Punch Lock/ Stud Crimper	1-1/2"	Max. (2) layers 22 gauge.	1 lb.

REPLACEMENT PARTS

PLD1	Replacement Punch and Die
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Does the work of more expensive bulkier punches faster and easier. Work overhead to pre-punch rivet holes in suspended ceiling grids or use in any edge application for making holes in window extrusions, metal ductwork or sheet stock. Compound leverage increases one hand mechanical advantage 8 to 1. Spring return handles allow quick set-up for repetitive applications. Stop gauge permits adjustments from 1/4" to 1-1/8" increments. Punch and die are easily replaceable or changed from standard 1/8" hole size to 3/16". Punch and dies are constructed from high quality tool steel used in commercial high production punch press dies. Body of tool consists of lightweight, aluminum die cast 'C' frame and rust resistant nickel plated steel handles and parts. Tool also features non-slip cushion handle grips and is compact enough to fit in any tool box or pouch.

Catalog Number	Description	Capacity (Sheet Metal)	Net Weight
HP18K	Hole Punch Kit	Max. (3 layers) 22 gauge	1 lb.

REPLACEMENT PARTS

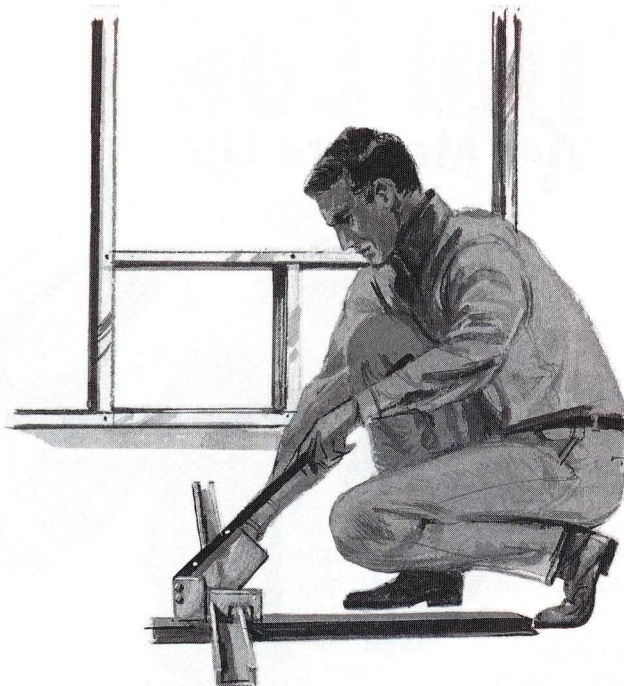
HPD18	1/8" Replacement Punch & Die Kit
HPD316	3/16" Replacement Punch & Die Kit

COMPOUND LEVERAGE Channel Shear

SRC24A



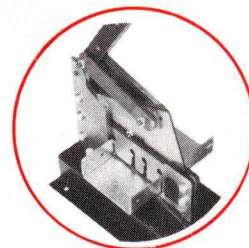
Compound leverage shear cuts through 20 gauge metal studs and runner faster, easier and more economically than any other tool on the market. Shear completes cut in one easy stroke without deforming metal channel. Die assembly assures that cutting action is clean and precise. Hollow ground hardened steel blade can be resharpened or replaced. A 36" long handle provides additional leverage making cutting with this shear almost effortless. Lightweight and portable enough to be where you want it, when you want it. Model SRC24A cuts 3 basic channel sizes (1-5/8, 2-1/2 & 3-5/8" stud and accommodating runners). Shear features rugged all steel and bolt construction. Handle has red vinyl comfortable grips.



Catalog Number	Capacity	Cuts both Stud & Runner Sizes	Height	Length	Weight Lbs.
SRC24A	20 gauge	1-5/8, 2-1/2, 3-5/8"	8"	36"	23

REPLACEMENT BLADE

Catalog Number	Description
10627	One replacement blade and two spacers. Field replacement.

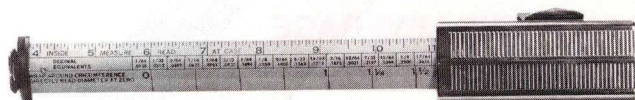




MEASURING TAPES

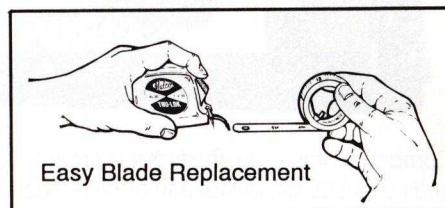
TRU-LOK™

Tapes Measure Up!



INSIDE READ

Printed on back of blade, reads full measure at case opening.



Easy Blade Replacement



1" x 30'
TRU-LOK™

BLADE BUMPERS
Protect blade tip from retraction shock.

LIGHTED TRU-LOKS™

Ideal for measuring in dimly lit work areas.

1" blades are self supporting up to 7 feet.

An improved Tru-Lok™ slide mechanism provides a positive lock on blade with positively no creeping. Also, lower profile case and a large lock button surface make one hand operation easier than ever before.

Tru-Lok's™ clearsight yellow blade is now imprinted with jet black numerals and graduations, and bright red marking for feet and 16" stud centers. A tough, non-peeling epoxy coating prolongs blade life.

The handy inside read printed on back of blade reads full inside measure at case opening. No need to add case dimensions! Blade back also features a circumference-diameter conversion scale and decimal equivalent table.

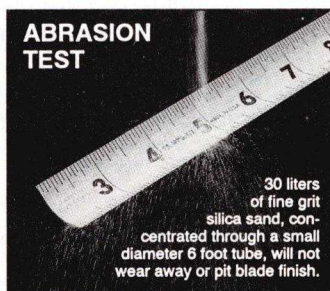
QUALITY MORE THAN SURFACE DEEP

Quality testing at the factory to meet rigid manufacturing standards, assures that Malco's TRU-LOK™ tapes measure up to your standards of precision workmanship on-the-job.



SALT WATER TEST

Scratched and scored blades placed in saline solution for one week show no signs of blistering, peeling or fading.



ABRASION TEST

30 liters of fine grit silica sand, concentrated through a small diameter 6 foot tube, will not wear away or pit blade finish.

And now available on all 3/4" and 1" wide Tru-Loks™ - Blade Bumpers! The exclusive new bumper feature effectively protects blade tip from retraction shock. Bumpers also slide along blade for making multiple measurements of holding a measurement.

Catalog Number	Blade Dimensions	Blade Bumper	Net Weight	Repl. Blade Cat. Number
2L10	1/2" x 10'	-	6 oz.	2R10
2L12	1/2" x 12'	-	7 oz.	2R12
3L10	3/4" x 10'	yes	9 oz.	3R10
3L12	3/4" x 12'	yes	9-1/2 oz.	3R12
3L16	3/4" x 16'	yes	13 oz.	3R16
3L20	3/4" x 20'	yes	10 oz.	3R20
4L25	1" x 25'	yes	1 lb.	4R25
4L30	1" x 30'	yes	1 lb. 4 oz.	4R30

LIGHTED TRU-LOKS™

Ideal for measuring in dimly lit work areas - attics, basements, new construction sites. Merely depress lock button to illuminate blade at case opening. New built-in light feature is available on 3/4" x 16' and 1" x 25' Tru-Loks™. Battery included. For battery replacement use type CR2326 or CR2430.

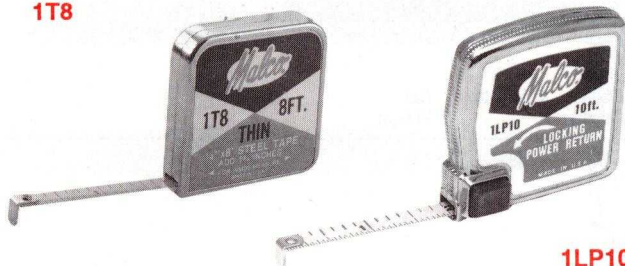
3L16L	3/4" x 16'	yes	13 oz.	3R16
4L25L	1" x 25'	yes	1 lb.	4R25

MEASURING TAPES



POCKET SIZE Malco Thin Tapes

1T8



1LP10

Lightweight, compact power return rules. 1/4" wide steel blades are tempered and finished in white enamel. Easy to read jet black markings are graduated in eighths, sixteenths and thirty-seconds on first 12 inches of blade. Non-movable end hook. Inside-outside measuring case is exactly 2 inches long at base and made of chrome plated zinc.

Catalog Number	Blade Dimensions	Blade Color	Net Weight	Repl. Blade Cat. Number
1T8	1/4" x 8'	white	2.5 oz.	-

10' LOCKING THIN TAPE

Button lock holds blade in place for precise measuring.

1LP10	1/4" x 10'	white	4 oz.	-
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OPEN REEL ENGLISH/METRIC Fiberglass Tapes

M100F



Open reel protects against build-up of grit on tape and mechanism. ABS plastic frame has a convenient hand grip and large roller arm for easy winding. Rugged fiberglass tape stands up to abuse, extreme weather conditions and offers superior safety from electrical hazards. Tape retains accuracy, will not stretch, shrink or deteriorate. Correction to compensate for elasticity not required under normal use. English side of tape is printed in jet black and bright red on yellow and graduated in eighths, with feet indicated in red. Metric side is printed in bright red on yellow with meters indicated in green.

Catalog Number	Length	Width	Net Weight	Blade Color
M50F	50'-15.2m	1/2"	12 oz.	yellow
M100F	100'-30.5m	1/2"	1 lb.	yellow
M165F	165'-50.3m	1/2"	1 lb. 12 oz.	yellow

Long Tape Rules WITH CHROME PLATED CASE

SLT50

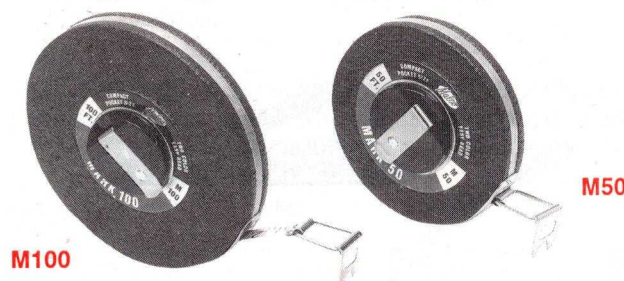


SLT100

Our finest long tapes. Heavy duty chrome plated diecast case is contour shaped to fit the hand. Rust proof glossy finish resists wear. Extra comfortable crank handle retracts blade with a smooth gliding action. Replacement blade in cartridge for easy insertion. 3/8" wide blade - resists oils, alkalies, acids and rust. Wears up to ten times longer than other brands. Bold black and red markings against yellow background assures maximum visibility. Graduations in eighths, inches and feet - with 16 inch stud markings. Two position folding steel hook adjusts for inside or outside measurement.

Catalog Number	Blade Dimensions	Blade Color	Net Weight	Repl. Blade Cat. Number
SLT50	3/8" x 50'	yellow	1 lb.	LT50RB
SLT100	3/8" x 100'	yellow	1 lb. 8 oz.	LT100RB

MARK™ SERIES Long Tape Rules



M100

M50

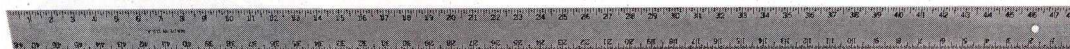
Mark 50 and Mark 100 long tape rules are compact and store easily in pocket or pouch. Easy winding handle flips up - folds flush to case when not in use. Blade is printed in jet black and bright red on yellow. Black markings are graduated in eighths, inches and feet with "quick conversion" inch-foot-inch feature. 16" center stud marks are flagged in red. Spring steel blade and rugged vinyl clad, welded steel case in pre-treated to resist rust. All exposed metal parts are nickel plated. Secure grip folding hook facilitates one man measuring operation.

Catalog Number	Blade Dimensions	Blade Color	Net Weight	Repl. Blade Cat. Number
M50	3/8" x 50'	yellow	10 oz.	M50RB
M100	3/8" x 100'	yellow	1 lb. 2 oz.	M100RB



RULES

Straight Edge Rule

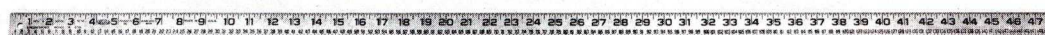


48AR

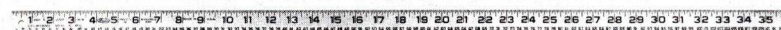
Made from .125 thickness flexible aluminum. 2" wide, 48" long. Large and clear, easy to read, red markings on polished gray surface. Can be read from either end. Graduations in eighths and sixteenths.

Catalog Number	Length	Net Weight
48AR	48"	1 lb.

Tinner's Circumference Rules



48BS

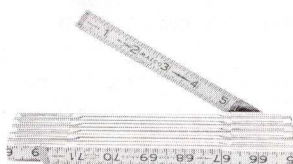


36BS

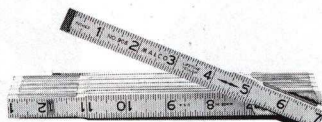


Standard bench rules with circumference readings for sheet metal work. Made from semi flexible, heat treated steel. Rules have deep electro-etched markings, black filled for easy reading. Rules are 1-1/4" wide by 1/16" thick. Handy hang up hole at one end for easy storage.

Wood Rules



606F



906

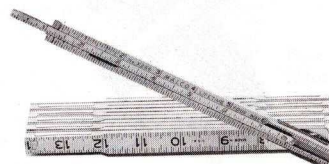


396F

Milled from number 1 select hardwood stock. Rules are graduated on both edges in inches and sixteenths, with stud markings every 16 inches. Finish is coated with a clear protective film that resists oil, alkalis and acids. Concealed steel ball-lock joints are smooth action, long wearing and lubricated to prevent rule stretch. Joints, strike plates and tips are all brass plated.

Catalog Number	Lgth.	Net Weight	Description	Color
906	6 ft.	6 oz.	Outside read L to R	natural wood
606F	6 ft.	6 oz.	Inside read L to R	natural wood
396F	8 ft.	8 oz.	Inside read L to R	natural wood

EXTENSION WOOD RULES



X266

X396



Milled from number 1 selected hardwood stock. Rules are graduated on both edges in inches and sixteenths, with stud markings every 16 inches. Both rules feature handy extensions for taking inside measurements.

Catalog Number	Lgth.	Net Weight	Description	Color
X266	6 ft.	6 oz.	Outside read L to R	natural wood
X396	8 ft.	8 oz.	Outside read L to R	natural wood

Rafter Framing Square

SS24



SA24

POLISHED STEEL

Professional steel square for all kinds of construction work - from roof rafting to building shelves. Body measures 24" x 2". Tongue is 16" x 1-1/2". Features frequently used measurement tables such as brace measure, octagon eight square scale and essex board measure. Square comes with hang-up hole on the tongue.

Catalog Number	Description	Net Weight
SS24	Steel rafter square	1 lb. 12 oz.

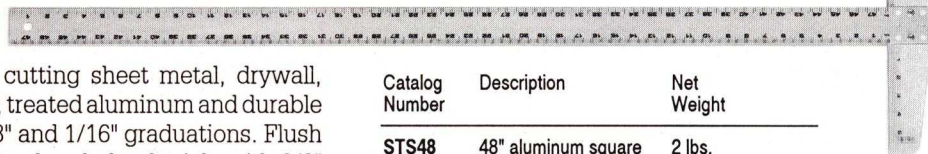
ALUMINUM

Lightweight aluminum frame. Body measures 24" x 2". Tongue is 16" x 1-1/2". Easy to read graduations on glue-gray enamel surface. Also features reverse reading scale. Hang up hole on tongue.

Catalog Number	Description	Net Weight
SA24	Aluminum framing square	12 oz.

ALUMINUM Giant "T" Square

STS48



Precision made for layout and cutting sheet metal, drywall, plywood, duct board. Extra light, treated aluminum and durable plastic T-head. Easy reading 1/8" and 1/16" graduations. Flush mounted intersection. Integral level and plumb vials with 3/8" dropped edge.

Combination Squares



SCS12
12" w/solid mounted vial

Machined head has self aligning steel drawbolt for easy blade installation. Satin finish steel blades are precision rolled in eighths and sixteenths on one side, thirty-seconds on the other side. Level vials are unbreakable. Squares also feature hardened scriber with brass bushing and pencil guide on blade.

Catalog Number	Description	Net Weight
SCS12	12" w/solid mounted vial	12 oz.
SCS16	16" w/360° view vial	14 oz.

Tri & Miter Square



STM120

8" black blade with easy reading recessed white graduations. High impact plastic handle with durable acrylic vial for level work. Top reading window allows greater visibility.

Catalog Number	Description	Net Weight
STM120	8" Tri Square	7 oz.

Catalog Number	Description	Net Weight
STS48	48" aluminum square	2 lbs.



LEVELS AND ACCESSORIES

Aluminum Levels WITH TOP READ CENTER VIAL



Strong and durable extruded aluminum frame is heat treated and milled on both gauging surfaces. Unique construction design features multi-directional vial. Dust proof covers are screwed in to protect vials and facilitate easy adjustment or replacement. Top read feature makes for quick, easy reading. Available in 24" and 48" lengths.

Catalog Number	Length	Number of Vials	I-Beam Stock Size
L24AT	24"	3	1" x 2-1/8"
L48AT	48"	4	1" x 2-1/8"

TOP READING Torpedo Levels



Duplex milled aluminum frame with "cycloc" end plates is lightweight and withstands shock or abuse. Precision cast parallel edges will not scratch work surface. Three large vials - plumb, level and 45°. White vial holders and top read feature facilitate quick, easy reading. Grooved working edge designed for use on pipe and conduit.

Catalog Number	Length	Number of Vials
L9	9"	3

MAGNETIC BASE

Same description as above. Features magnetic strip on one side.

L9M	9"	3
-----	----	---

MAGNETIC BASE

Holds firmly to metal surfaces, thus freeing hands. Magnetic strip is matched to milled aluminum edge for professional accuracy and exceptional holding power.

Catalog Number	Length	Number of Vials	I-Beam Stock Size
L24ATM	24"	3	1" x 2-1/8"
L78ATM	78"	5	1" x 2-1/8"

Protractors



L36P



Pitch Angle Calculator
on back.

ANGLE AND PITCH TOOL

Finds or measures any angle where pitch or slope is necessary. Built-in Pitch Angle Calculator on backside finds rise, run, angle, pitch on 12, or rafter lumber length ratios. Magnetic base and back.

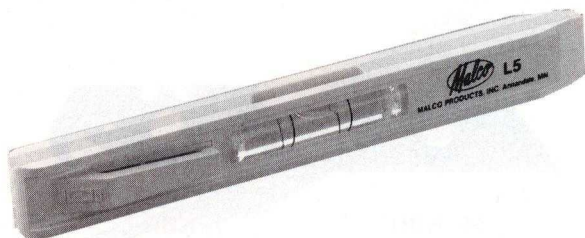
Catalog Number	Description	Net Weight
L36P	Protractor	7 oz.

LEVELS AND ACCESSORIES



Pocket Level

L5



Strong molded plastic frame with chrome pocket clip. Multi view vial reads top, bottom or side. Ideal for leveling thermostats.

Catalog Number	Length	Number of Vials
L5	5"	1

Line and Surface Level

L3



Extremely lightweight and compact. Offers outstanding visibility and accuracy. Cyclac case prevents line sag. Level has grooved working edge for use on pipe and conduit. Top hooks hold securely to line yet slide freely for easy positioning and for leveling large areas. Pen type clip fits shirt pocket.

Catalog Number	Length	Number of Vials
L3	3"	1

PLUMB LINES & PLUMB-BOBS

Plumb-Bobs

PB5



PB8

5 oz. and 8 oz. Plumb Bobs are constructed in one piece and are plated for corrosion resistance.

Catalog Number	Description	Net Weight
PB5	Plumb Bob	5 oz.
PB8	Plumb Bob	8 oz.

Chalk/Plumb Line

CLP100



Chalk/plumb line marks on any surface, including wood, brick, stone and metal. Lightweight case is die-cast aluminum with baked enamel finish. Side action winding reel lock releases automatically on rewind. Hook ring holds line securely. Wedge lock plumb bob tip prevents chalk leakage, opens for quick, easy refilling. "Pop-in" line spool is easily replaceable.

Catalog Number	Length	Net Weight	Replacement Spool Cat. No.
CLP50	50'	7 oz.	CLR100
CLP100	100'	8 oz.	CLR100

Powdered Chalk

Vibrant blue and permanent red chalk lays down a hard, clean line that won't blow away. Available in 8 oz. and big 5 lb. plastic dispensing bottles.

Catalog Number	Color	Net Weight
C8B	Blue	8 oz.
C8R	Red	8 oz.
C5B	Blue	5 lb.
C5R	Red	5 lb.

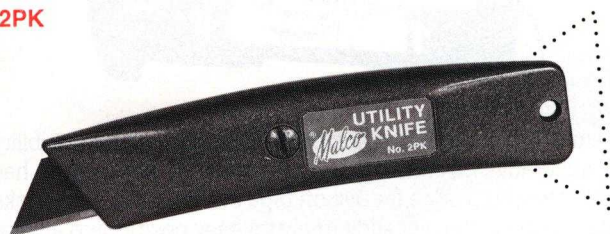




KNIVES AND KNIFE BLADES

Utility Knife FIXED BLADE

2PK



Blade can be set in either cutting or scraping fixed positions.

Catalog Number	Description
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2PK	1 position utility knife blade always out and ready.
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Utility Knife TOP BUTTON ACTION



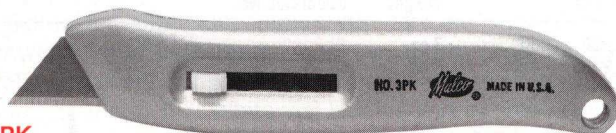
4PK

Die-cast heavy duty model comes complete with 3 surgical quality, extra heavy precision blades that fit all popular models. Safe, easy to operate, thumb action mechanism on top facilitates three cutting positions - fully extended, partially extended for carton opening and intermediate.

Catalog Number	Description
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4PK	3 position utility knife (thumb action mechanism)
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Utility Knife SIDE BUTTON ACTION



3PK

Retractable blade advances to three locked cutting positions with the aid of push button. Lightweight, strong handle is contoured to the hand for easy, controlled use. Knife comes complete with supply of 3 double point blades, including 2 in handle compartment and 1 in retracting mechanism.

Catalog Number	Description
----------------	-------------

3PK	3 position utility knife
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Utility Knife Blades



205KBH



KBR

Heavy duty .025" thick Swedish, special alloy, tempered spring steel. Blades are precision ground to a fine cutting edge. Blades fit Malco 2PK, 3PK, 4PK and all other major brand utility knives. Available in bulk quantities of 100 or boxes of 10 blister carded 5 packs.

HOOK END BLADES

Special deep bite hook design is ideal for cutting roofing paper, shingles, plastic, screening, linoleum, carpeting, leather, canvas, etc. Makes difficult pattern cuts easier and more accurately than straight edge blades.

Catalog Number	Description
----------------	-------------

205KBH	100 bulk, double point blades
KBH5	Carded 5 pack, double point blades
KBR	100 bulk, hook-end blades.
KBR5	Carded 5 pack, hood-end blades.

Mini-Knife®



KBM



3PKM

Precision cuts clean, sharp, fast. Miniature utility knife stores safely in pocket for convenience in the office or out on the job site. Thumb operated retractable blade locks in 3 positions. Chrome plated steel handle features handy key chain. Handle has storage for 5 blades.

Catalog Number	Description
----------------	-------------

3PKM	Mini-Knife with retractable blade.
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MINI-KNIFE® BLADES

5 pack of miniature utility knife blades for Malco 3PKM knife. 5 blades store easily in 3PKM handle. Blades fit most other brands of miniature utility knives.

Catalog Number	Description
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KBM	Mini-Knife Blade 5 pack
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KNIVES AND KNIFE BLADES



Roofer's Knife



RK2

TP401

For marking and cutting asphalt shingles, roofing paper, linoleum, and similar materials or scoring aluminum. Replaceable blades feature both a straight edge and hook point for cutting any pattern configuration.

Catalog Number	Description
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RK2	Roofer's knife with blade
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ROOFER'S KNIFE BLADES

Roofer's Knife blades are made of heavy duty cutlery steel. Blades are attached to knife shaft with two screws and are easily replaced with the aid of a screwdriver. Available in bulk quantities of 100 or boxes of 10 blister carded 5 packs.

Catalog Number	Description
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RK2B	100 bulk, roofer's knife blades
RK2B5	Carded 5 pack, roofer's knife blades

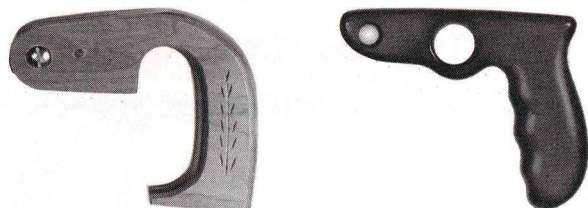
LEATHER HOLSTER

Provides easy retrieval of RK2 knife. Heavy top grain saddle leather holster allows knife to ride safely at user's side. Knife will not get lost on-the-job. Double stitched and rivet reinforced. Wide tunnel loop fits web belt.

TP401	Holster for RK2 knife.
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SAWS AND SAW BLADES

Compass Saws & Blades



CHW

CHP

Order either pistol grip or laminated wood handle with any standard compass saw blade shown. Nickel wing nut facilitates easy change of blades. Blades may be reversed in handle for overhead cutting. Handle size fits large and small hands comfortably.

LAMINATED WOOD HANDLE

Stronger than ordinary grain cut handles. Will not break when dropped. Handle is sanded and coated with a clear gloss finish.

PLASTIC PISTOL GRIP HANDLE

Malco plastic handles feature "patented" saw comfort. Pistol grip handle is made of special high impact polystyrene.



14CS

12CS

COMPASS SAW HANDLES ONLY

Catalog Number	Description
----------------	-------------

CHP	Pistol grip handle only
CHW	Wood handle only

COMPASS SAW BLADES ONLY

Manufactured from a special analysis high carbon steel, hardened and tempered for long life.

Catalog Number	Length	Thickness	Teeth Per Inch
12CS	12"	.060"	8
14CS	14"	.060"	8

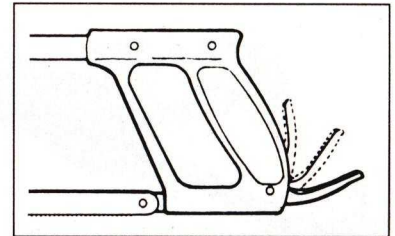
Description and cutting applications

For fast, clean accurate cuts through nails, metal lath, plasterboard, stucco, BX conduit and all types of wood. Teeth are generated on punch press. Each tooth is individually set and filed. Faces are filed square with backs filed to alternate 10° bevels.



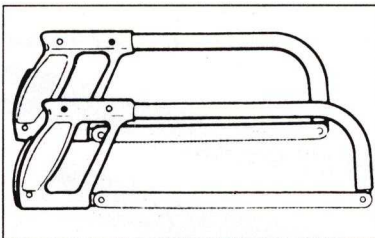
SAWS AND SAW BLADES

Deluxe High Tension Hack Saw



Loading is quick with this patented high tension adjustment and release lever feature.

HS65



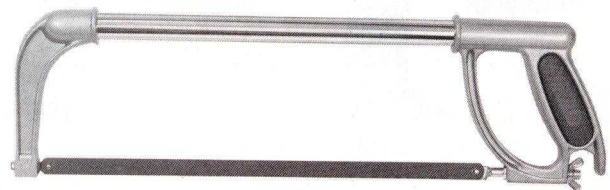
Deluxe high tension hack saw adjusts to both 10 and 12 inch blades with the push of a button.

This High Tension Saw meets or exceeds tension pounds required for optimum performance of BiMetal blades. Quick loading, adjustable high tension lever and push button length adjustment ideal for both 10 and 12 inch BiMetal blades.

Holding pins allow blade to be positioned in two positions. Deep 4 inch throat and non-obstructing frame permits 100% flush cutting in any blade position. Lightweight die cast aluminum handle and 3/4 inch tubular steel frame form a rugged yet perfectly balanced saw. Front end of frame may also be gripped comfortably for two hand sawing operation. Baked enamel finish handle and nickel plated frame protects against rust. Saw comes complete with one BiMetal blade.

Catalog Number	Description	Throat Depth	Weight
HS65	High tension hack saw frame	4"	1 lb. 4 oz.

All Purpose Hack Saw



HS45

Die-cast aluminum handle and tubular steel frame construction is compact and lightweight. Resists bending and is virtually untwistable. Wing nut facilitates simple blade tension adjustment and eliminates blade twist and wobble. Holding pins can be positioned easily for flush cutting. Curved front end design for comfortable two-hand operation. Tubular steel frame is nickel chrome plated to resist rust. Saw uses standard 12 inch blades.

Catalog Number	Description	Throat Depth	Weight
HS45	All purpose hack saw	3-3/4"	14 oz.

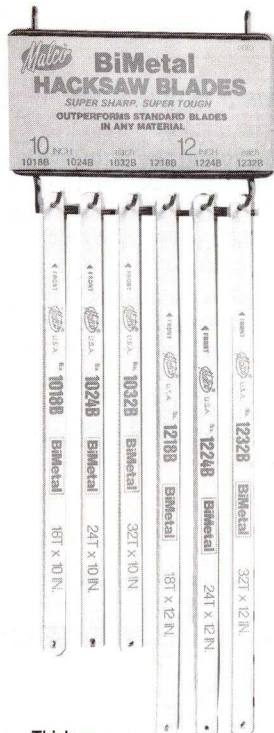
SAWS AND SAW BLADES



Hacksaw Blades

**SUPER SHARP,
SUPER TOUGH
BiMetal by Malco™**

Shatterproof, versatile combination of high speed steel teeth and flexible carbon alloy back assures cleaner, faster, straighter cuts in any type of material. Out performs, outlasts standard carbon and high speed steel blades.



Catalog Number	Length	Width	Teeth Per inch	Thickness
1218B	12"	1/2"	18	.025"
1224B	12"	1/2"	24	.025"
1232B	12"	1/2"	32	.025"
1018B	10"	1/2"	18	.025"
1024B	10"	1/2"	24	.025"
1032B	10"	1/2"	32	.025"

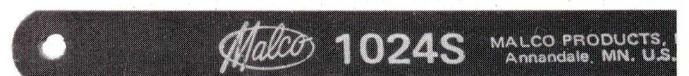
HIGH SPEED MOLYBDENUM STEEL



For fast and accurate cuts. Teeth are die cut, precision milled and accurately set. Flame hardened tooth edge and back offer superior cutting characteristics.

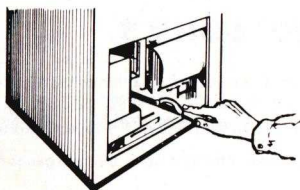
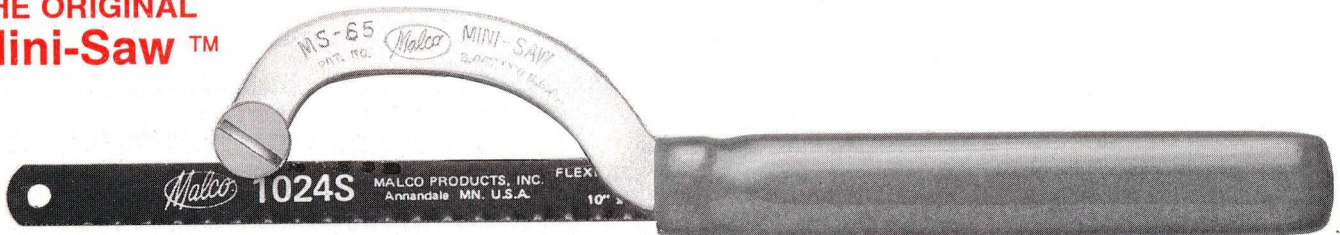
Catalog Number	Length	Width	Teeth Per inch	Thickness
1214F	12"	1/2"	14	.025"
1218F	12"	1/2"	18	.025"
1224F	12"	1/2"	24	.025"
1232F	12"	1/2"	32	.025"
1018F	10"	1/2"	18	.025"
1024F	10"	1/2"	24	.025"
1032F	10"	1/2"	32	.025"

GENERAL PURPOSE CARBON STEEL



Catalog Number	Length	Width	Teeth Per inch	Thickness
1218S	12"	1/2"	18	.025"
1224S	12"	1/2"	24	.025"
1232S	12"	1/2"	32	.025"
1018S	10"	1/2"	18	.025"
1024S	10"	1/2"	24	.025"
1032S	10"	1/2"	32	.025"

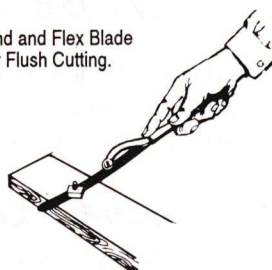
THE ORIGINAL Mini-Saw™



Use in Hard to Reach Places

MS65

Extend and Flex Blade
for Flush Cutting.



For the jobs conventional hack saws cannot do. Slim profile Mini-Saw is ideal for working in very confined areas and for flush cutting at any angle. Indispensable to plumbing, heating, air-conditioning, refrigeration tradesmen and all servicemen. Saw uses all standard lengths of blades and other types of 1/2" saw blades. Finger locking screw makes blade changing easy. Nickel plated steel construction. Non-slip vinyl cushion grip.

Catalog Number	Description	Weight
MS65	Mini-Saw	6 oz.

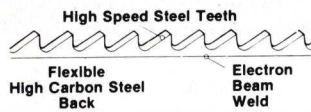


RECIPROCATING SAW BLADES

A full line selection of Reciprocating Saw Blades

FEATURING SUPER SHARP, SUPER TOUGH

BiMetal By Malco™



BiMetal blades are formulated from a premium metal composition consisting of a High Speed Steel cutting edge, micro welded to a flexible High Carbon Steel back. BiMetal blades are available in both wood and metal cutting varieties. They will withstand more types of abuse than standard blades (they are virtually shatterproof) and will last up to 5 times longer in certain applications.

SELECTION TIPS

Selecting the right blade for the job is critically important. Factors that should be considered are:

1. Type and hardness of material to be cut, which will determine the tooth form, thickness and material composition of the blade to be used.
2. Size and variation in cross section of stock to be cut which dictates the pitch of the teeth (or teeth per inch) required, tooth set and blade length.
3. Type of cut, whether straight, contour or both will determine blade width.

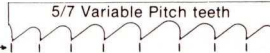
See below for complete description and applications.

WOOD CUTTING

* = BiMetal

Catalog Number	Nominal L x W x	Thickness	Teeth /Inch	Tooth Set	Tooth Form	Cutting Edge	Blade Mat'l	Description & Application
S								HCS (High Carbon Steel) SUPREME CONTOUR (roughing-in)
3S6	4 3/4"	7/16"	.050"	6	Alternate	Standard	Ground	HCS
4S6	6"	5/8"	.050"	6	Alternate	Standard	Ground	HCS
12S6	12"	3/4"	.050"	6	Alternate	Standard	Ground	HCS
4S8	6"	5/8"	.050"	8	Alternate	Standard	Ground	HCS
Fully hardened HCS contour blade. Teeth are fleam sharpened (alternate ground set) for fast feeding, clean shearing action.								
								
Use S series /6 tooth, our fastest cutting blades for nail free wood. Use 8 tooth for nail embedded wood.								
(B4S6, B4S8, Bulk 25 Packs also available)								

DL								BiMetal* By Malco DELUXE CONTOUR
4DL6	6"	7/16"	.049"	6	Alternate	Standard	Milled	*
BiMetal composition with HSS (High Speed Steel) teeth and flexible carbon steel back offer long service life in a versatile contour cutting design. This 6 tooth blade cuts through nail embedded woods.								

KH								HCS (High Carbon Steel) and BiMetal* selections KEYHOLE
4KH6	6"	3/4"	.049"	5/7	Alternate	Variable	Milled	*
12KH8	12"	3/4"	.049"	5/7	Alternate	Variable	Milled	*
8KH7	9"	3/4"	.049"	5/7	Alternate	Variable	Milled	*
4KH8	6"	3/4"	.049"	8	Alternate	Standard	Milled	*
4KH7	6"	3/4"	.049"	6	Alternate	Standard	Ground	HCS
12KH7	12"	3/4"	.049"	6	Alternate	Standard	Ground	HCS
Beginning of cycle → 								
Varied tooth sizes permit an overall coarser pitch blade for aggressive cutting in nail embedded wood.								
Use 8 tooth for general roughing-in work. Cuts nail embedded wood. Also fast cutting in fiberboard, asphalt, sheetrock.								
Fully hardened HCS contour blade. 4KH7 teeth are fleam sharpened (alternate ground set) for fast feeding, clean shearing action.								
								
12KH7 ground teeth are fast cutting in nail free wood. Keyhole profile cuts mild contours. (B4KH7 Bulk 25 Pack also available).								
(B4KH7 Bulk 25 Pack also available)								

GT								BiMetal* By Malco DELUXE "SPEED" BLADES
4GT7	6"	5/8"	.031"	6	Alternate	Standard	Milled	*
2GT10	3 1/2"	5/8"	.031"	10	Alternate	Standard	Milled	*
4GT10	6"	5/8"	.031"	10	Alternate	Standard	Milled	*
Hardness and temper of Malco BiMetal construction permits a thinner, lower profile blade that resists twisting and bending while cutting at high speed.								
GT7 produces smooth, clean cuts in hard and soft wood. Plywood, fiberboard, insulation board.								
GT10 recommended for smoother cutting in nail embedded wood and light gauge non-ferrous metals.								

DS								HCS (High Carbon Steel) DOUBLE EDGE SABRE
4DS6	6"	5/8"	.050"	6	Alternate	Standard	Milled	HCS
Double-edge rough-in blade plunge cuts, turns sharply, saws forward and backward. Square holes can be completed before removing blade from hole.								
(B4DS6 Bulk 15 Pack also available)								

RECIPROCATING SAW BLADES



* = BiMetal

Catalog Number	Nominal L x W x	Thickness	Teeth /Inch	Tooth Set	Tooth Form	Cutting Edge	Blade Mat'l	Description & Application
T								HCS (High Carbon Steel) FLASH CUT
8T3	9" 3/4"	.049"	3	Alternate	Standard	Milled	HCS	Heavy chip load capacity (3 T.F.I.) for cutting large beams in seconds. Cuts both dry and wet nail free lumber.

418								HAS (High Alloy Steel) COMBINATION (wood & metal)
418	6" 3/4"	.031"	16	Wavy	Standard	Milled	HAS	Shock resistant HAS (High Alloy Steel) with flexible back and hardened teeth, plus a narrow set and 18T metal cutting pitch are the ideal combination for a versatile inexpensive wood and metal cutting blade. Makes smooth cuts in wood, with less splintering. Also cuts through nails. Handy for removing crate and box tops.

P								HAS (High Alloy Steel) and BiMetal* selections PLASTER
2P6	3 1/2" 3/4"	.039"	6	Alternate	"V"	Milled	HAS	For continuous cutting in plaster, plaster with metal lath and sheetrock. "V" tooth configuration with 60° angle cuts on both forward and backward stroke.
4P6	6" 3/4"	.049"	6	Alternate	"V"	Milled	*	2P6 (3 1/2" L) constructed of resilient HAS (High Alloy Steel) with flexible back and hardened teeth. Longer 4P6 (6" L) features durable BiMetal construction.

GS								HSS (High Speed Steel) WOOD SCROLL-FINISHING
2GS7	3 3/8" 1/4"	.057"	6	Ground	Standard	Alternate	HSS	Ground teeth and sides (alternate ground and tapered set) reduce splinters. For fast, clean cuts in wood, plaster, formica and fiberglass.

METAL CUTTING

TF								BiMetal* By Malco THIN FLEX
3TF14	4" 5/8"	.031"	12	Raker	Standard	Milled	*	Thin Flex blades feature durable BiMetal construction and are recommended for cutting stainless steel and other dense materials. For greatest length of cut or number of cuts, reduce cutting speed to avoid overheating blade.
4TF14	6" 5/8"	.031"	14	Raker	Standard	Milled	*	
3TF18	4" 5/8"	.031"	16	Raker	Standard	Milled	*	
4TF18	6" 5/8"	.031"	18	Raker	Standard	Milled	*	

MC								HSS (High Speed Steel) and BiMetal* selections HIGH SPEED METAL CUTTING
3MC24	4" 5/8"	.031"	21	Wavy	Standard	Milled	*	Most commonly used blades feature BiMetal construction to withstand heavy feed pressure and abuse.
4MC24	6" 5/8"	.031"	24	Wavy	Standard	Milled	*	
8MC10	8" 5/8"	.031"	10	Raker	Standard	Milled	*	
3MC14	4" 5/8"	.031"	12	Raker	Standard	Milled	HSS	
4MC14	6" 5/8"	.031"	14	Raker	Standard	Milled	HSS	MC14 blades cut metal angles, bars, channels, hard rubber, over 1/8" thick.
2MC18	3 1/2" 5/8"	.031"	17	Raker	Standard	Milled	HSS	
3MC18	4" 5/8"	.031"	16	Raker	Standard	Milled	HSS	
4MC18	6" 5/8"	.031"	18	Raker	Standard	Milled	HSS	
2MC24	3 1/2" 5/8"	.031"	21	Wavy	Standard	Milled	HSS	MC18 blades are for cutting metals 18 gauge to 1/8" thickness; pipe tubing, conduit, light angles.
3MC32	4" 5/8"	.031"	35	Wavy	Standard	Milled	HSS	
								MC24 blades cut metals lighter than 18 gauge; sheet steel, light tubing, metal molding.
								MC32 blades are for making smooth cuts in very light gauge metal.

HS								HSS (High Speed Steel) HIGH SPEED HEAVY METAL SCROLL
3HS14	3 1/2" 1/4"	.049"	12	Alternate	Standard	Milled	HSS	A stiffer (.049" thick) High Speed Steel scroll blade with aggressive alternate (wood cutting) set teeth is ideally suited for intricate contour cutting in heavy gauge metals, fiberboard and hard rubber.

MS								HSS (High Speed Steel) and BiMetal* selections HIGH SPEED METAL SCROLL
2MS14	3 1/2" 1/4"	.031"	12	Alternate	Standard	Milled	*	Blades subject to hardest cutting materials and usage. Some feature durable BiMetal Construction.
2MS18	3 1/2" 1/4"	.031"	16	Raker	Standard	Milled	*	
2MS24	3 1/2" 1/4"	.031"	21	Wavy	Standard	Milled	HSS	2MS18 blade for scroll cuts in 18 gauge to 1/8" thicknesses.
2MS32	3 1/2" 1/4"	.031"	36	Wavy	Standard	Milled	HSS	
								2MS24 cuts thicknesses under 18 gauge.
								2MS32 for smooth cuts in very light gauges.



HOLE SAWS

the Hole in One™ HOLE SAW

Featuring
SUPER SHARP, SUPER TOUGH
BiMetal by Malco™



The Hole Saw with the Built-in Arbor!

ONE PIECE ARBOR AND HOLE SAW COMBINATION ELIMINATES THE NEED FOR SEPARATE ARBOR ATTACHMENTS.

Save up to 35% of tool costs with the Hole in One, based on industry averages. The Hole in One avoids arbor match-up confusion, installation problems and stripping common to traditional hole saw types which require the added expense of a separate arbor. The Hole in One hole saw assures that the user always has the correct size arbor, properly installed and ready to use.

QUALITY AND SELECTION TO FIT YOUR HOLE CUTTING APPLICATIONS.

Thirty-five Hole in One sizes are available for cutting any machinable material, including tool steels and stainless, to a depth of 1-1/8". Heavy duty composite construction features a continuous arc weld between cap and shatterproof steel body. Permanence of weld uniting arbor to cap proven under extreme test conditions. The teeth (variable pitch, 4-6 per inch) are milled into a high speed steel edge which is microwelded to the alloy steel body. Precise concentricity of the Hole in One "Built-in" arbor assures close dimensional tolerance cuts and vibration free operation. The Hole in One hole saw has a multitude of industrial cutting applications, including: pipe tapping and entry, auto body work, lock mounting and electrical installation. (See chart at right for catalog number and specifications).

HOLE-IN-ONE KITS



Hole Saw selection, pilot drills, arbor extension and driver (for installing pilot) packaged in durable polypropylene case.

Catalog Number	Description
----------------	-------------

Maintenance Hole in One Kit

HSK	One each of the following sizes: 2-1/2, 2-1/4, 2, 1-3/4, 1-1/2, 1-3/8, 1-1/8, 7/8 and 3/4". Plus (4) HSB drills, (1) HSX extension arbor shank and (1) stubby driver.
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Electricians Hole in One Kit

HSK2	One each of the following sizes: 2-1/2, 2, 1-3/4, 1-3/8, 1-1/8 and 7/8". Plus (3) HSB drills.
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Plumbers Hole in One Kit

HSK4	One each of the following sizes: 2-1/4, 1-3/4, 1-1/2, 1-1/8, 7/8 and 3/4". Plus (3) HSB drills.
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ACCESSORIES

12-3/4" Hole Saw Extension Arbor



HSX

Hole Saw Pilot Drill Bits



HSB

Catalog Number	Description
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HSX	Hole saw arbor extension for 7/16" arbor shank
HSB	Replacement hole saw pilot drills

HOLE SAWS



the Hole in One™
HOLE SAW

Catalog Number	Diameter Inches	mm	HOLE					RECOMMENDED (RPM) CUTTING SPEED						
			Recommended Pipe Tap Size (I.D.)	Clearance Entr. Size	Tubing Coupling (I.D.)	Entr. Size	Coupling	Hole Saw	Size Inches	Mild Steel	Tool and Stainless Steel	Cast Iron	Brass	Alum.
H10	5/8	15.8	-	-	-	1/4	-	H10	5/8	550	275	365	730	825
H11	11/16	17.5	-	-	-	-	-	H11	11/16	500	250	330	665	750
H12	3/4	19.0	-	-	-	3/8	-	H12	3/4	460	230	300	600	690
H14	7/8	22.2	3/4	1/2	-	5/8	-	H14	7/8	390	195	260	520	585
H15	15/16	23.8	-	-	-	-	-	H15	15/16	370	185	245	495	555
H16	1	25.4	-	-	1/4	3/4	1/2	H16	1	350	175	235	470	525
H17	1-1/16	27.0	-	-	-	-	-	H17	1-1/16	325	160	215	435	480
H18	1-1/8	28.6	1	3/4	3/8	-	-	H18	1-1/8	300	150	200	400	450
H19	1-3/16	30.2	-	-	-	-	-	H19	1-3/16	285	145	190	380	425
H20	1-1/4	31.8	-	-	1/2	1	3/4	H20	1-1/4	275	140	180	360	410
H21	1-5/16	33.3	-	-	-	-	-	H21	1-5/16	260	136	175	345	390
H22	1-3/8	34.9	-	1	-	-	-	H22	1-3/8	250	125	165	330	375
H24	1-1/2	38.1	1-1/4	-	3/4	1-1/4	1	H24	1-1/2	230	115	150	300	345
H26	1-5/8	41.3	-	-	-	-	-	H26	1-5/8	210	105	140	280	315
H28	1-3/4	44.5	1-1/2	1-1/4	-	1-1/2	1-1/4	H28	1-3/4	195	95	130	260	295
H30	1-7/8	47.6	-	-	-	-	-	H30	1-7/8	180	90	120	240	270
H32	2	50.8	-	1-1/2	-	-	1-1/2	H32	2	170	85	115	230	255
H33	2-1/16	52.4	-	-	-	-	-	H33	2-1/16	165	80	110	220	245
H34	2-1/8	54.0	-	-	-	-	-	H34	2-1/8	160	80	105	210	240
H36	2-1/4	57.2	2	-	1-1/4	2	-	H36	2-1/4	150	75	100	200	230
H38	2-3/8	60.3	-	-	-	-	-	H38	2-3/8	140	70	95	190	220
H40	2-1/2	63.5	-	2	1-1/2	-	-	H40	2-1/2	135	70	90	180	205
H42	2-5/8	66.7	-	-	-	-	-	H42	2-5/8	130	65	85	170	195
H44	2-3/4	69.9	-	-	-	2-1/2	-	H44	2-3/4	125	60	80	160	185
H46	2-7/8	73.0	-	-	-	-	-	H46	2-7/8	120	60	80	160	180
H48	3	76.2	-	2-1/2	2	-	2-1/2	H48	3	115	55	75	150	170
H50	3-1/8	79.4	-	-	-	-	-	H50	3-1/8	110	55	70	145	165
H52	3-1/4	82.6	3	-	-	3	-	H52	3-1/4	105	50	70	140	155
H56	3-1/2	88.9	-	-	-	-	-	H56	3-1/2	95	45	65	125	145
H58	3-5/8	92.1	-	3	-	-	3	H58	3-5/8	95	45	60	120	140
H64	4	101.6	-	-	2-1/2	3-1/2	3-1/2	H64	4	85	40	55	115	125
H66	4-1/8	104.2	-	3-1/2	-	-	-	H66	4-1/8	85	40	55	110	120
H68	4-1/4	108.0	-	-	-	-	-	H68	4-1/4	80	40	55	110	115
H72	4-1/2	114.3	-	4	3	4	-	H72	4-1/2	75	35	50	100	105
H80	5	127.0	-	-	-	-	-	H80	5	65	30	40	85	90

All sizes feature 4/6 VARIABLE PITCH TEETH for aggressive cutting in all machinable materials.

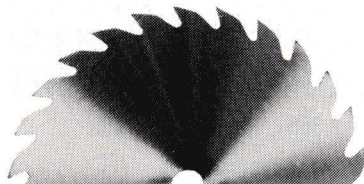
NOTE: Special sizes not listed above are available in a full range of 1/16" increment diameters between 9/16" and 6". Please request the exact hole saw size you require.



CIRCULAR SAW BLADES

ELECTRIC CHROME PLATED STEEL BLADES

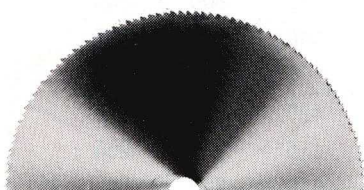
REGULAR COMBINATION



Cut 300-500% longer than unplated blades before resharpening. Plating resists rust and corrosion. Best blade for smooth, fast cutting in any direction through the grain. Most frequently used on portable saws.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
650CC	6-1/2" (165)	Univ.	6450	24
B650CC	(Bulk Pack of 25)			
725CC	7-1/4" (184)	Univ.	5800	26
B725CC	(Bulk Pack of 25)			
100CC	10" (254)	5/8"	6000	32

PLYWOOD & VENEER



A versatile design. Our most popular blade. The perfect blade to use for fine, extra clean cutting on plywood, veneer, thin plastics and cellotex.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
650CP	6-1/2" (165)	Univ.	6450	140
B650CP	(Bulk Pack of 25)			
725CP	7-1/4" (184)	Univ.	5800	150
B725CP	(Bulk Pack of 25)			
100CP	10" (254)	5/8"	6000	200

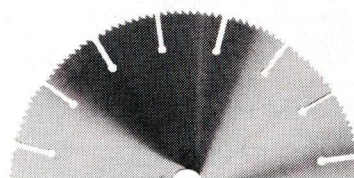
ALUMINUM & PLASTIC



Ideal for smooth cuts in aluminum and vinyl siding, downspout and gutter. Manufactured of our best quality steel and hollow ground with plenty of clearance.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
600CAP	6" (152)	Univ.	6000	150
B600CAP	(Bulk Pack of 25)			
700CAP	7" (178)	Univ.	6000	150
B700CAP	(Bulk Pack of 25)			
100CAP	10" (254)	5/8"	6000	150

METAL CUTTING BLADE



Cut steel siding, gutter and downspout, corrugated steel roofing, and partition studding to 1/8" thickness. Blade must be lubricated for best results. Teeth should be cleaned of burrs to prevent gumming. Not designed for fully hardened steel such as: Steel I-Beams and related metals.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
600CM	6" (152)	Univ.	7000	(16)
700CM	7" (178)	Univ.	6000	(16)
100CM	10" (254)	5/8"	6000	(16)

CUTTING WHEELS



MASONRY CUTTING WHEEL

Made of reinforced bonded silicone carbide. They are designed specifically for cutting all types of masonry. Manufactured with two layers of fiberglass reinforcing material bound together with high strength resin to insure safety.

Catalog Number	Dia. (mm)	Arbor	Thick-ness
650MA	6-1/2" (165)	Univ.	1/8"
B650MA	(Bulk Pack of 25)		
700MA	7" (178)	Univ.	1/8"
B700MA	(Bulk Pack of 25)		

METAL CUTTING WHEEL

Produced from reinforced bonded aluminum oxide. These wheels are designed to cut all types of metal including steel, aluminum, iron, copper, brass, etc.

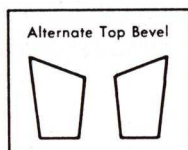
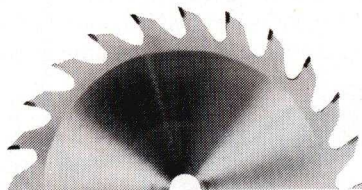
Catalog Number	Dia. (mm)	Arbor	Thick-ness
650ME	6-1/2" (165)	Univ.	1/8"
B650ME	(Bulk Pack of 25)		
700ME	7" (178)	Univ.	1/8"
B700ME	(Bulk Pack of 25)		

CIRCULAR SAW BLADES



CARBIDE TIPPED BLADES/ELECTRIC CHROME PLATED

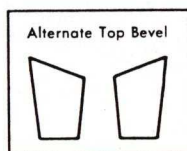
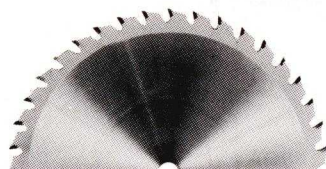
GENERAL PURPOSE CARBIDE



The ultimate blades for smooth cutting. Cut 300-500% longer than unplated carbides before resharpening. Plating resists rust and corrosion. Alternate top bevel design for use in cutting hard and soft wood, plywood and veneer, fiber and composite boards, hard boards, plastic laminates.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
650CCBR	6-1/2" (165)	Univ.	6450	24
725CCBR	7-1/4" (184)	Univ.	5800	24

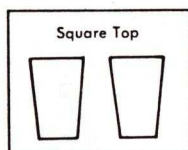
40 TOOTH CARBIDE



These blades are designed for precision smooth cutting in wood, plywood, chipboard, paneling, marlite and pressboard.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
100CCBV	10" (254)	5/8"	6000	40

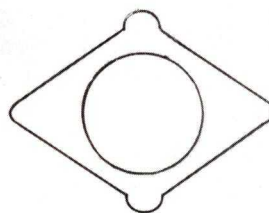
ROOFER'S CARBIDE TIPPED BLADE



Resharpenable. Square top tooth is designed for rough cutting through tar paper, shingles and related roofing materials with embedded nails. A special coated finish resists binding or sticking. Perfect for plunge cutting applications such as installing new dormers, skylites or removing old sections of roofs. Clean blade with solvent after each use.

Catalog Number	Dia. (mm)	Arbor	RPM	Teeth (sections)
725BCBRS	7-1/4" (184)	5/8"	5800	14

UNIVERSAL ARBOR



Malco's Universal Arbor is made from the saw blade steel itself. Fully hardened, it remains flush with the blade and has greater adhesion at all times. Will fit diamond arbor for worm driven saws or 5/8" round arbor shafts.

PROPER USE AND CARE OF CARBIDE TIPPED SAWS

Carbide tipped saws are expensive and should be handled with due respect:

Hazards to prevent would be as follows:

- Dropping on basement or concrete floors.
- Ramming into nails.
- Striking with a hammer.
- Attempting to sharpen with a file.
- Trying to cut steel or ferrous materials.
- Mounting improperly or using on an old machine with loose bearings, bent arbor, or improper size arbor.
- Forcing material through the machine (let the blade do the work).

All saws must be sharpened properly for the correct application or work the particular blade is designed for.

It is always best and cheaper in the long run to take blades to a reputable saw resharpening shop for servicing when required.

Indications that sharpening or servicing is required would be as follows:

- Points of teeth no longer feel sharp to the touch.
- Excessive gum deposits on sides of blades.
- More resistance to cutting (harder to push).
- Burning in the cut (smoking).
- No longer cutting in a straight line.
- Excessive vibration.
- Heating of blade or wobbling.



HAMMERS AND ACCESSORIES

Malco Hammers

Manufactured from a special fine grain forging steel. Quality heat treat minimizes possibility of head chipping or mushrooming. Hammer sections are individually hardened and tempered for proper strength or resiliency as required. Built for the professional, hammers are perfectly balanced for true swing.

LEATHER HANDLES

One piece steel I-beam construction (no welds or joints) afford maximum strength and safety. Contoured leather handles give a firm, comfortable grip that gradually conforms to individual's hand with continuous use. Handles are protected with a durable lacquer coating. Unpainted hammer heads are high

polished finish and dip-coated in a metal protecting lacquer.

HICKORY HANDLES

Handles are best grade, second growth hickory, flame hardened and lacquer finished. Heads are securely joined to handles with sturdy, lifetime wedge construction. These hammers are designed for long service.

RH4



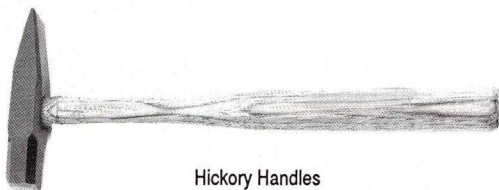
SH3

RIVETING HAMMER Leather Handles

Choice of full polished or blue painted finish. Faces are beveled.

Catalog Number	Finish	Head Weight	Length	Face Size	O/A Length
RH4	polished	12 oz.	4-7/8"	3/4"	11"
RH4B	blue	12 oz.	4-7/8"	3/4"	11"

2RW



Hickory Handles

Black painted finish with polished face and rounded polished pein. Faces are beveled.

Catalog Number	Head Weight	Length	Face Size	O/A Length	Replacement Handle #
2RW	16 oz.	5"	1"	13-1/4"	WH23
3RW	12 oz.	4-11/16"	7/8"	13-3/8"	WH23

SETTING HAMMERS Leather Handles

Choice of full polished or blue painted finish with polished face and pein. Faces and peins are beveled.

Catalog Number	Finish	Head Weight	Length	Face Size	O/A Length
SH3	polished	18 oz.	5-1/2"	7/8"	11-7/8"
SH3B	blue	18 oz.	5-1/2"	7/8"	11-7/8"

2SW



Hickory Handles

Black painted finish with polished face and pein. Faces and peins are beveled.

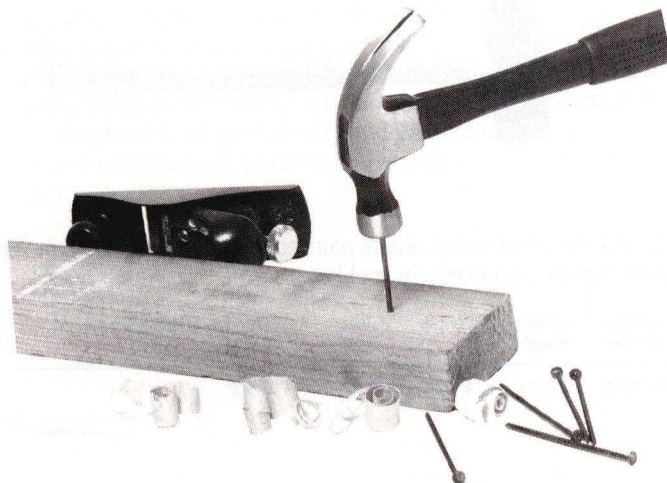
Catalog Number	Head Weight	Length	Face Size	O/A Length	Replacement Handle #
2SW	16 oz.	5"	1"	13-1/8"	WH23
3SW	12 oz.	4-3/4"	7/8"	12-7/8"	WH23

Fiberglass Handled Hammers



16SCF

16CCF

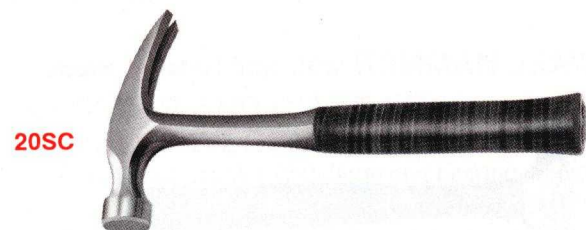


Manufactured from a special fine grain forging steel. Hammer sections are individually hardened and tempered for proper strength or resiliency as required. Built for the professional, hammers are carefully balanced for true swing.

These quality built hammers feature black fiberglass handles with vinyl grips for improved comfort. Fiberglass handles minimize recoil, thus reducing worker fatigue due to repetitive use on-the-job. Hammer faces are carefully beveled and the edges chamfered to help resist chipping.

Catalog Number	Claw	Head Weight	Length	Face Size	O/A Length
16CCF	curved	16 oz.	5-1/4"	1"	13"
16SCF	straight	16 oz.	5-1/2"	1"	13"
20CCF	curved	20 oz.	5 1/2"	1-1/16"	13"
20SCF	straight	20 oz.	6"	1-1/16"	13"

CLAW HAMMERS Leather Handles



20SC

Available with curved claw or straight ripping claw. Full polished finish. Faces are beveled.

Catalog Number	Claw	Head Weight	Length	Face Size	O/A Length
16CC	curved	16 oz.	4-1/4"	1-1/16"	12-1/2"
16SC	straight	16 oz.	4-7/8"	1-1/16"	12-1/2"
20CC	curved	20 oz.	5"	1-3/16"	12-1/2"
20SC	straight	20 oz.	5-5/8"	1-3/16"	12-1/2"

Pry Bars



HB15

HANDY BAR

Wide, thin tapered design for easy marproof prying. Half round heel provides easy rocking action.



PB18

I-BEAM PRY BAR

I-Beam construction gives superior strength, yet is lightweight for less worker fatigue. Polished double hammer faces.

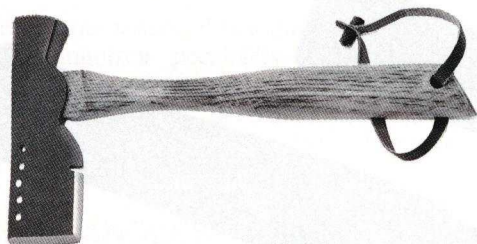
Catalog Number	Length	Net Weight
HB15	15"	18 oz.
PB18	18"	22 oz.



HAMMERS AND ACCESSORIES

ROOFER'S HAMMER with Half Hatchet Blade

RFH2

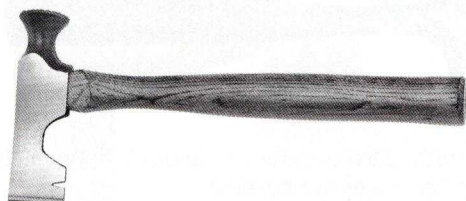


Lathing-shingling hammer and half blade hatchet combination has milled crown striking face, draw knife inner blade and a slot for nail pulling. 5 hole marking gauge is in 1/2" increments. Black paint finish. Hammer also features leather safety strap and ample handle clearance to protect knuckles from scrapes.

Catalog Number	Head Length	Blade Width	Face Size	O/A Length	Replacement Handle #
RFH2	6-3/4"	2-1/4"	1-3/8"	12"	WH35

DRYWALL HAMMER with Half Hatchet Blade

DH3

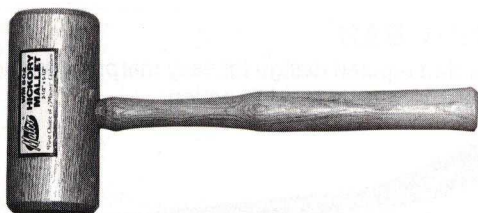


Wallboard hammer and half hatchet blade combination has mill checkered striking face that dimples board without breaking paper. Semi-polished head has slot for nail pulling. Ample handle clearance protects knuckles from scrapes!

Catalog Number	Head Length	Blade Width	Face Size	O/A Length	Replacement Handle #
DH3	6-1/8"	1-3/4"	1-1/2"	13-1/2"	WH40

WOODEN MALLET

WM502



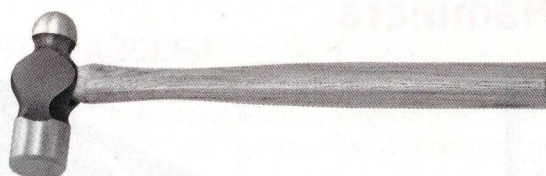
Genuine hickory mallet features clear waterproof sealer. Ideal for bending and forming sheet metal without marring or indenting metal. Handles are cemented into the mallet and secured firmly with a steel pin.

Catalog Number	Net Weight	Face Length	Face Size	O/A Length
WM502	1 lb.	5-1/2"	2-1/2"	14"

BALL PEIN HAMMER

Hickory Handle

BP32W



Black painted finish with polished face and pein. Faces are beveled.

Catalog Number	Head Weight	Length	Face Size	O/A Length	Replacement Handle #
BP8W	8 oz.	3-3/8"	1"	12-1/4"	WH25
BP12W	12 oz.	3-3/4"	1-1/4"	13"	WH26
BP16W	16 oz.	4"	1-5/16"	13-1/2"	WH27
BP20W	20 oz.	4-3/8"	1-5/16"	14-1/2"	WH28
BP24W	24 oz.	4-5/8"	1-7/16"	15-3/8"	WH29
BP32W	32 oz.	4-15/16"	1-1/2"	16"	WH30

ENGINEER'S HAMMER

Sledge Type Head

SLH250



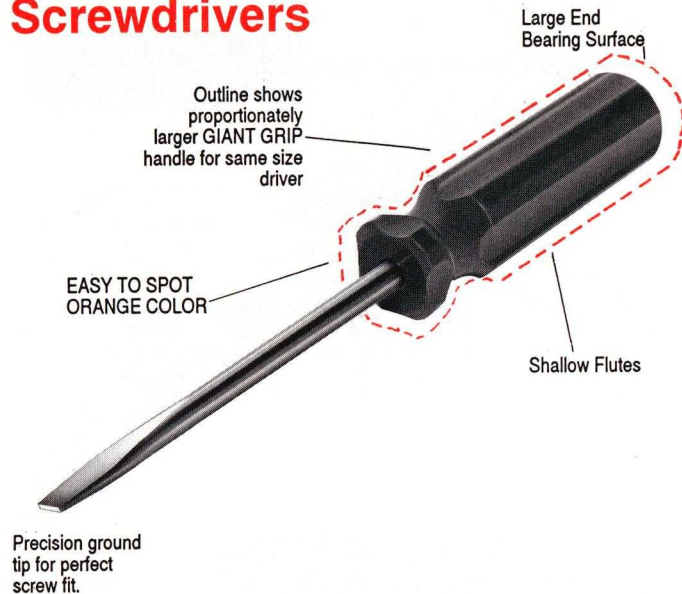
Double faced hammer. Black painted finish with polished faces and bevels. Fits easily in tool box!

Catalog Number	Head Weight	Length	Face Size	O/A Length	Replacement Handle #
SLH250	2.5 lbs.	4-1/2"	1-5/8"	15-1/2"	WH45

SCREWDRIVERS

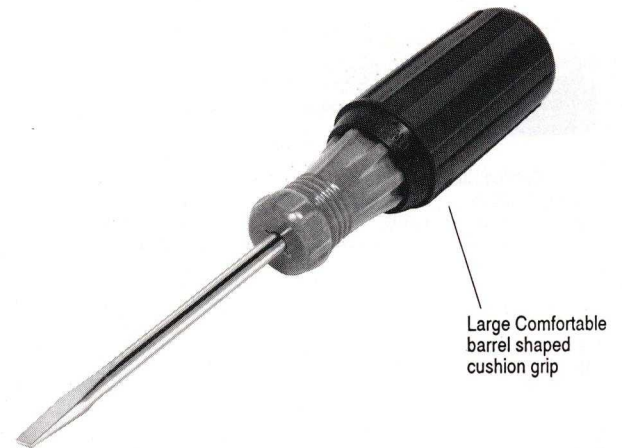


Regular and Giant Grip Screwdrivers



Designed for maintenance, electrical and assembly continuous use applications. Keystone and Phillips drivers are also ideal for driving hardened screw heads in sheet metal. Individually heat treated blade tips are precision ground for perfect fit in screw head. Handles are shockproof and shatterproof. Driver handles and blades are joined securely and will not turn or come loose. Driver construction assures many years of reliable, superior performance.

Cushion Grip Screwdrivers



REGULAR AND GIANT GRIP SCREWDRIVERS

Shallow fluted handles with large end bearing surface provide a sure, comfortable grip for maximum torque. User has choice of regular grip handle or a large diameter giant grip featuring extra power and comfort for performing even the toughest jobs with ease.

CUSHION GRIP SCREWDRIVERS

The same great construction features as all Malco drivers plus a large, comfortable barrel shaped cushion grip.

SQUARE SHANK KEYSTONE



GS56



S56C



Catalog Number		Cushion Grip	Blade Dia.	Blade Length	Recom. Screw#
Regular Grip	Giant Grip				
S44	GS44	S44C	1/4"	4"	10-12
S56	GS56	S56C	5/16"	6"	12-16
S68	GS68	S68C	3/8"	8"	16-20
S612	—	S612C	3/8"	12"	16-20

ROUND SHANK KEYSTONE



K44C



GK42



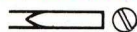
K41

Catalog Number		Cushion Grip	Blade Dia.	Blade Length	Recom. Screw#
Regular Grip	Giant Grip				
K41	—	K41C	1/4"	1-1/2"	10-12
—	GK42	—	1/4"	1-1/2"	10-12
K44	GK44	K44C	1/4"	4"	10-12
K56	GK56	K56C	5/16"	6"	12-16
K68	GK68	K68C	3/8"	8"	16-20
K610	GK610	K610C	3/8"	10"	16-20



SCREWDRIVERS

ELECTRICAL/CABINET STYLE



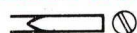
18C2



C33C

Catalog Number					
Regular Grip	Giant Grip	Cushion Grip	Blade Dia.	Blade Length	Recom. Screw#
18C2	—	—	1/8"	2"	2-5
C22	—	—	1/8"	2"	2-5
C33	—	C33C	3/16"	3"	6-9
C36	—	C36C	3/16"	6"	6-9
C45	—	C45C	1/4"	5"	10-12
C48	—	C48C	1/4"	8"	10-12

ELECTRICAL STYLE



C22M



C26

C28C



Catalog Number					
Regular Grip	Giant Grip	Cushion Grip	Blade Dia.	Blade Length	Recom. Screw#
C22M	—	—	1/8"	2"	2-5
C24	—	C24C	1/8"	4"	2-5
C26	—	C26C	1/8"	6"	2-5
C28	—	C28C	1/8"	8"	2-5

PHILLIPS HEAD High Polish Finish



GP42

P42



P33C



Catalog Number					
Regular Grip	Giant Grip	Cushion Grip	Blade Dia.	Blade Length	Recom. Screw#
P33	—	P33C	3/16"	3"	No. 1
P42	—	P42C	1/4"	1-1/2"	No. 2
—	GP42	—	1/4"	1-1/2"	No. 2
P44	—	P44C	1/4"	4"	No. 2
P56	—	P56C	5/16"	6"	No. 3

GRIP TIP Reed & Prince (Fearson) Head



GF44

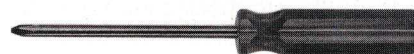


Catalog Number					
Regular Grip	Giant Grip	Cushion Grip	Blade Dia.	Blade Length	Recom. Screw#
GF44	—	—	1/4"	4"	one size fits all
GF56	—	—	5/16"	6"	one size fits all

7 PIECE COMBINATION Screwdriver Sets



SK20



Most popular sizes of Keystone, cabinet style and Phillips screwdrivers packaged in a vinyl see-thru pouch.

REGULAR GRIP SET

K41	Round Shank Keystone
K44	Round Shank Keystone
K56	Round Shank Keystone
C22	Electrical/Cabinet Style
C33	Electrical/Cabinet Style
P33	Phillips Head
P44	Phillips Head

Catalog Number	Description
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SK20	Regular grip 7 piece driver set
SK2C	Cushion grip 7 piece driver set

CUSHION GRIP SET

K41C	Round Shank Keystone
K44C	Round Shank Keystone
K56C	Round Shank Keystone
C24C	Electrical Style
C33C	Electrical/Cabinet Style
P33C	Phillips Head
P44C	Phillips Head

SCREWDRIVERS AND SCREWDRIVER BITS



4-in-1 Driver



Self-contained four-in-one model accommodates a double end insert bit on both ends of steel shank. Insert bit features two sizes of Phillips (1 & 2) and two sizes of slotted head (3/16 & 1/4"). One insert bit is on the inside end of steel shank stored in handle when not in use. Positive steel ball locks shank firmly into handle. Driver bits are individually protected with black oxide. Shank is chrome plated to protect against rust.

Catalog Number	Blade Dia.	Phillips Pt. Size	Blade Length
RD4	3/16"	1	3-1/8"
	1/4"	2	3-1/4"

REPLACEMENT INSERT BITS

10550	3/16"	1"	—
10551	1/4"	2	—

MAGNETIC Hex Drivers

HHD1



HHD2



Use with Zip-in™ and Type 'A' hex head screws.

Catalog No.	Hex Open'g	Shank Dia.	Shank Lgth.	Nose Dia.	Handle Color	O/A Lgth.
HHD1	1/4"	3/8"	6"	1/2"	red	10-1/8"
HHD2	5/16"	1/2"	6"	1/2"	amber	10-1/8"

MAGNETIC Hex Chuck Drivers

Use with Zip-in™ and Type 'A' hex head self-drilling screws and Bit-Tip® drill and tap screws.



MSH1/4



MSHL1/4

Catalog Number	Hex Opening	Hex Shank Dia.	Nose Dia.	O/A Length
MSH1/4	1/4"	1/4"	7/16"	1-3/4"
MSH5/16	5/16"	1/4"	1/2"	1-3/4"
MSH3/8	3/8"	1/4"	9/16"	1-3/4"

Long Style

MSHL1/4	1/4"	1/4"	7/16"	2-9/16"
MSHL5/16	5/16"	1/4"	1/2"	2-9/16"
MSHL3/8	3/8"	1/4"	9/16"	2-9/16"
MSHL7/16	7/16"	1/4"	11/16"	2-9/16"

Extra Long Style



MSHML1/4

MSHML1/4	1/4"	1/4"	7/16"	4"
MSHXL1/4	1/4"	1/4"	7/16"	6"

Bit Holder & Bits



MBH1/4

MBLP3



MBSP1



MBSS1/4



MAGNETIC BIT HOLDER

Catalog Number	Hex Opening	Hex Shank Diam.	Nose Diam.	O/A Length
MBH1/4	1/4"	1/4"	7/16"	3"

INSERT BITS-FOR PHILLIPS SCREWS

Catalog Number	Point Size	Hex Shank Diam.	O/A Length
MBSP1	2	1/4" (reduced dia.)	1"
MBSP2	2	1/4"	1"

Hex Drive Bit-for Phillips Screws

MBLP3	2"	1/4"	1-15/16"
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INSERT BITS-FOR SLOTTED SCREWS

Catalog Number	Screw Size	Hex Shank Diam.	Blade Width	O/A Length
MBSS1/4	6	1/4"	1/4"	7/8"
MBSS9/32	8	1/4"	9/32"	7/8"
MBSS5/16	10	1/4"	5/16"	7/8"

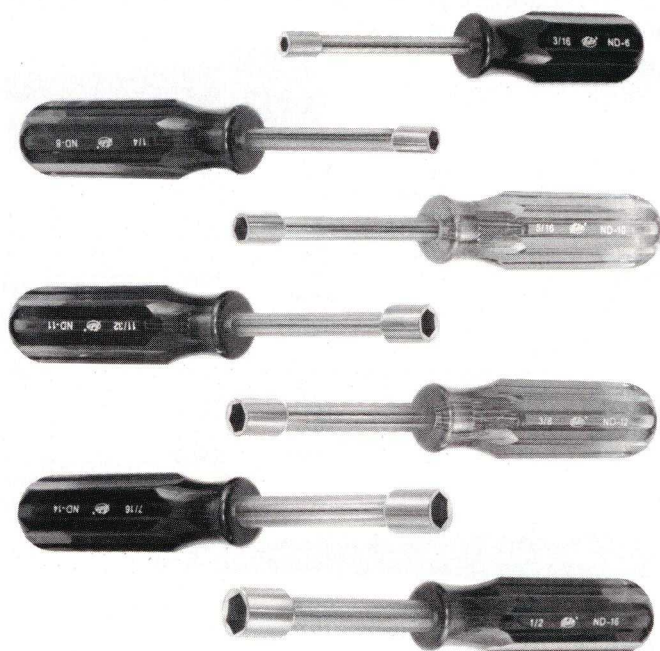
Long Insert Bits

MBLS7/32	6F-8R	1/4"	7/32"	1-1/2"
MBLS1/4	8F-10R	1/4"	1/4"	1-1/2"
MBLS9/32	10F-12R	1/4"	9/32"	1-1/2"

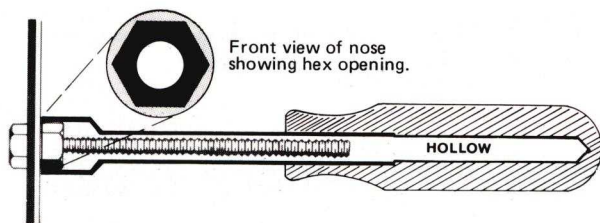


HOLLOW NUT DRIVERS

Nut Drivers WITH FULL HOLLOW SHAFTS

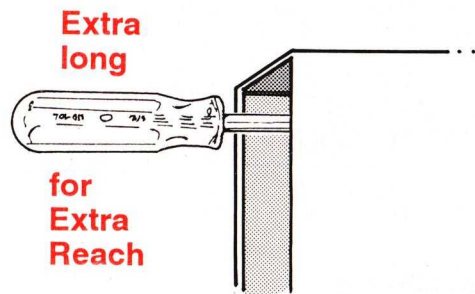


Extra Long Nut Drivers WITH HOLLOW SHAFTS



Front view of nose showing hex opening.

Hollow shafts (see illustration) make these nut drivers more versatile for a variety of jobs requiring nut setting. Nose at end of steel shaft is precision cold drawn and case hardened. Color coded plastic handles. Driver handles and blades are securely joined and will not turn or come loose. Fluted handles also feature large end bearing surface for comfortable grip and maximum torque. Nickel chrome finish on blade. Quality construction assures many years of dependable service.



Same great features with hollow shafts in a big selection of big new sizes.

Catalog Number	Hex Opening	Shank Dia.	Shank Lgth.	Hole Dpth.	Nose Dia.	Handle Color	O/A Lgth.
ND6	3/16"	1/4"	3-1/8"	5-1/2"	3/8"	black	6-1/4"
ND8	1/4"	5/16"	3-1/8"	6"	7/16"	red	7-1/4"
ND10	5/16"	5/16"	3-1/8"	6"	1/2"	yellow	7-1/4"
ND11	11/32"	5/16"	3-1/8"	6"	9/16"	green	7-1/4"
ND12	3/8"	3/8"	3-1/8"	6"	9/16"	blue	7-1/4"
ND14	7/16"	7/16"	3-1/8"	6"	5/8"	amber	7-1/4"
ND16	1/2"	7/16"	3-1/8"	6"	11/16"	red	7-1/4"

NUT DRIVER KIT

Catalog Number	Description/Kit Contents
ND7K	Drivers ND6, ND8, ND10, ND11 ND12, ND14 and ND16

Catalog Number	Hex Opening	Shank Dia.	Shank Lgth.	Hole Dpth.	Nose Dia.	Handle Color	O/A Lgth.
ND6L	3/16"	1/4"	6"	9-3/4"	3/8"	black	9-1/8"
ND8L	1/4"	5/16"	6"	9-3/4"	7/16"	red	9-1/8"
ND10L	5/16"	5/16"	6"	9-3/4"	1/2"	yellow	10-1/8"
ND11L	11/32"	5/16"	6"	10"	9/16"	green	10-1/8"
ND12L	3/8"	3/8"	6"	10"	9/16"	blue	10-1/8"
ND14L	7/16"	7/16"	6"	10"	5/8"	amber	10-1/8"
ND16L	1/2"	7/16"	6"	10"	11/16"	red	10-1/8"

EXTRA LONG NUT DRIVER KIT

Catalog Number	Description/Kit Contents
NDL7K	Drivers ND6L, ND8L, ND10L, ND11L, ND12L, ND14L and ND16L

Hex Key Pocket Sets

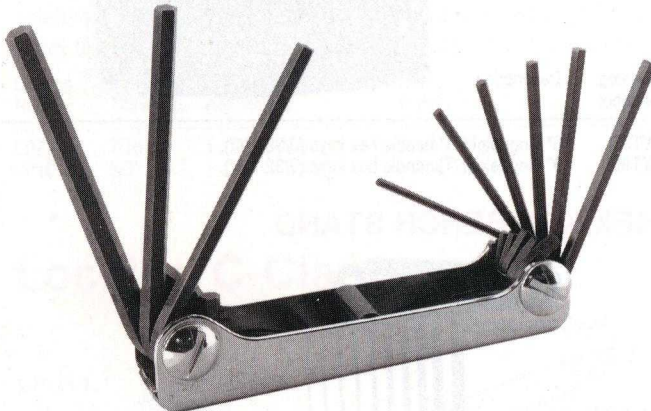
Indispensable to service technicians or repairmen. Folds up like a knife, stores easily and eliminates problem of lost keys. Use sturdy case as a handle for extra leverage to apply torque. Nickel-chrome alloy steel, precision heat treated. Keys are black oxide finished. Case is chrome plated.



W19

Sturdy one piece case

Catalog Number	Total Sizes	Size Included
W19	9	Short: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 and 3/16"



W29

Sturdy one piece case

W29	9	Short: 5/64, 3/32, 7/64, 1/8, 9/64 and 5/32" Long: 3/16, 7/32 and 1/4"
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"L" Hex Key Sets



W6

A complete selection of 'L' shaped hex key wrenches, specifically designed for refrigeration installers or repairmen. Made from top grade alloy steel, heat treated for added strength and durability. Rust resistant natural finish. Now available in 6" and 12" long series. Packaged in plastic pouch.

Catalog Number	Length	Number of sizes
W6	6"	9 sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/4"
W12	12"	7 sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32 and 1/4"

"L" Hex Keys Individual Sizes

12 INCH LONG

Catalog Number	Size
W12564	5/64"
W12332	3/32"
W1218	1/8"
W12532	5/32"
W12316	3/16"
W12732	7/32"
W1214	1/4"

6 INCH LONG

Catalog Number	Size
W6 5/64	5/64"
W6 3/32	3/32"
W6 7/64	7/64"
W6 1/8	1/8"
W6 9/64	9/64"
W6 5/32	5/32"
W6 3/16	3/16"
W6 7/32	7/32"
W6 1/4	1/4"



HEX KEYS

Ball Tip "L" Wrenches

EASY SOCKET ACCESS AT ANGLES UP TO 30° OFF AXIS.

A production and service tool offering speed and ease of entry wherever hex socket fasteners are used. The BALL TIP head slides easily into socket - eliminates need for critical alignment. Provides access even in blind locations.

BALL TIP speed overcomes slow, frustrating socket screw adjustment problems. BALL TIP's 30° angle access short cuts service procedures by reducing the amount of disassembly and reassembly required when working in confined or compartmentalized equipment components.



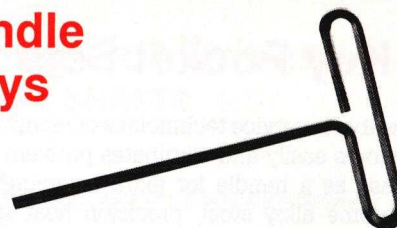
Two tools in one. Ball end provides convenience of off-axis "L" rotation. Standard end provides leverage for maximum torque.

Catalog Number	Width Across Flats	Length
WBL050	.050"	2-7/8"
WBL1/16	1/16"	3"
WBL5/64	5/64"	3-1/4"
WBL3/32	3/32"	3-1/2"
WBL7/64	7/64"	3-3/4"
WBL1/8	1/8"	3-7/8"
WBL9/64	9/64"	4-1/8"
WBL5/32	5/32"	4-1/4"
WBL3/16	3/16"	4-3/4"
WBL7/32	7/32"	5-1/8"
WBL1/4	1/4"	5-1/2"
WBL5/16	5/16"	6-3/8"

BALL TIP WRENCH SET

Catalog Number	Description
WBL12S	12 "L" Ball Tips with case. Sizes .050-5/16"

"T" Handle Hex Keys

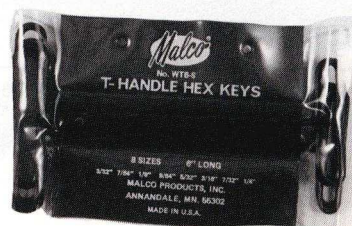


Finest quality nickel-chrome alloy steel. Precision tempered. Easy to grasp loop handle may be hung up. Available in 6" and 9" lengths. Key sizes stamped on top of handles. Black oxide finish.

6" length Catalog Number	9" length Catalog Number	Width Across Flats	Handle Width
WT6 3/32	WT9 3/32	3/32"	3"
WT6 7/64	WT9 7/64	7/64"	3"
WT6 1/8	WT9 1/8	1/8"	3"
WT6 9/64	WT9 9/64	9/64"	3"
WT6 5/32	WT9 5/32	5/32"	3"
WT6 3/16	WT9 3/16	3/16"	4"
WT6 7/32	WT9 7/32	7/32"	4"
WT6 1/4	WT9 1/4	1/4"	4"
WT6 5/16	WT9 5/16	5/16"	6"
WT6 3/8	WT9 3/8	3/8"	6"

"T" Handle Hex Key Sets in Plastic Pouch

WT6S



Catalog Number	Description
WT6S	6" long, eight "T" handle hex keys (3/32-1/4").
WT9S	9" long, eight "T" handle hex keys (3/32-1/4").

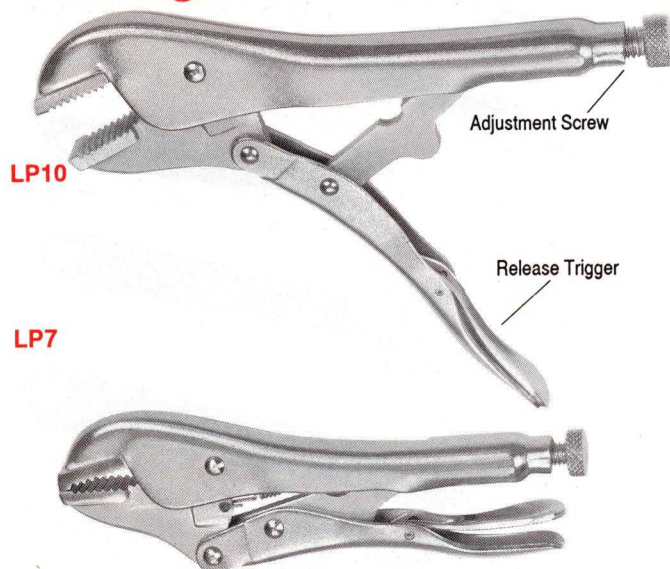
HEX KEY BENCH STAND



Handy metal bench stand with 10 sizes of T-Handle Hex Keys, 3/32" thru 3/8". Stand features easy-to-read key fit chart and holes at base for permanent mounting to bench.

Catalog Number	Description
WTS1K6	Set of 10 six inch T-hex keys. Sizes 3/32" thru 3/8". Stand included.
WTS1K9	Set of 10 nine inch T-hex keys. Sizes 3/32" thru 3/8". Comes with bench stand.
WTS1	Bench stand only. Holds either set of 9" or 6" keys.

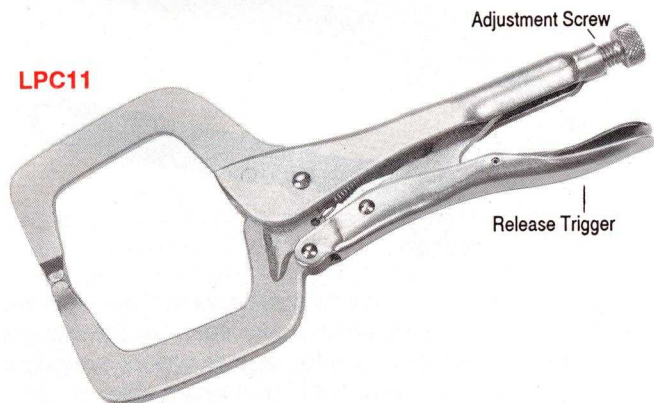
STRAIGHT JAW Locking Pliers



Heavy duty for the tough jobs. Locks to work with powerful grip. Adjustment screw applies the right amount of pressure for various material thicknesses - nut and bolt sizes. Press the release trigger and the jaws snap open. Made of high grade alloy steel and heat treated for maximum durability. Nickel plated.

Catalog Number	Jaw Thickness	Jaw Adjustment	Length	Net Weight
LP7	7/16"	1-1/8"	7"	15 oz.
LP10	5/8"	1-1/2"	10"	1 lb. 6 oz.

Locking C-Clamp



Adjusts to the correct opening before use, then clamps to the work fast. Squeeze the handle to lock - press release trigger to unlock. Jaws are easily adapted to specialized jobs.

Catalog Number	Jaw Adjustment	Length	Net Weight
LPC11	3-3/4"	11"	1 lb. 13 oz.

Ratchet Wrenches

RRW3

RRW4



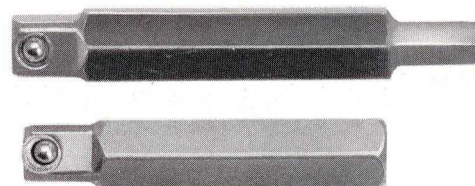
For installing or servicing heating, air conditioning or refrigeration units.

Catalog Number	Square	Hex
RRW4	3/16" & 1/4"	1/2" & 9/16"
RRW3	3/16", 1/4, 5/16 & 3/8"	

5/16" & 3/16" HEX KEY WRENCH INSERTS

RRW3/16

RRW5/16



1/4" square drive shanks fit Malco RRW3 and RRW4 Ratchet Wrenches. Facilitates easy ratcheting action for servicing hard to access valves common in air conditioning and refrigeration condensing units.

Catalog Number	Square Shank Diameter	Hex Key Diameter	O/A Length	Net Weight
RRW5/16	1/4"	5/16"	1-5/8"	1 oz.
RRW3/16	1/4"	3/16"	1-5/8"	1 oz.



WRENCHES AND PLIERS

Adjustable Wrenches



Quick adjusting, sure grip wrenches are thinner, stronger and more durable. Hardened knurl rotates freely with fingertip ease. Tension spring under knurl prevents hex shaped jaw opening from changing adjustment. Sliding jaw moves in accurate broached slot for maximum bearing with minimum side play. Threaded pin is staked in line with screw slot to prevent disassembly. Slim, tapered jaws are induction hardened to prevent disfiguring of opening. Malco wrenches are drop-forged from high quality alloy steel, heat treated and nickel chrome plated. Finished with bright head faces and satin finished handles. Sizes 4" through 12" are also available with blue vinyl cushion grips.

Catalog Number	Length	Jaw Opening	Net Weight
AW4	4"	1/2"	1-1/2 oz.
AW6	6"	3/4"	4 oz.
AW8	8"	1"	7-1/2 oz.
AW10	10"	1-1/8"	13-1/2 oz.
AW12	12"	1-5/16"	1 lb. 8 oz.
AW15	15"	1-3/4"	3 lbs. 8 oz.

GRIPPED ADJUSTABLE WRENCHES



Catalog Number	Length	Jaw Opening	Net Weight
AW4G	4"	1/2"	1-1/2 oz.
AW6G	6"	3/4"	4 oz.
AW8G	8"	1"	7-1/2 oz.
AW10G	10"	1-1/8"	13-1/2 oz.
AW12G	12"	1-5/16"	1 lb. 8 oz.

X-TRA CAPACITY WRENCHES



Greater jaw capacity than standard adjustables, these wrenches often eliminate the need to use the next larger size. Ideal for jobs where convenience of a smaller, lighter weight wrench is desired. Available only with red vinyl cushion grips.

Catalog Number	Length	Jaw Opening	Net Weight
AW6XG	6"	15/16"	4 oz.
AW8XG	8"	1-1/8"	7-1/2 oz.
AW10XG	10"	1-5/16"	13-1/2 oz.
AW12XG	12"	1-1/2"	1 lb. 8 oz.

WRENCHES AND PLIERS



Multi-Track Pliers

MT7



MT10



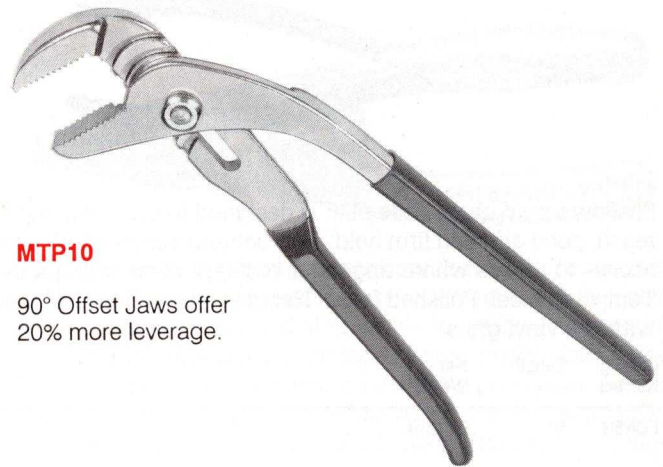
MT12



Multiple slip joint pliers are ideal for use on conduit, pipe and cable connections. Tongue and groove joints hold jaws securely in selected position and take strain off bolt. Teeth are designed to give maximum grip on any round, square or hex shaped object. Long cushion grip handles give powerful leverage with gentle angled spread for easy one hand operation. Thin design permits access to confined spaces where conventional pipe wrenches won't go. Tempered steel halves offer long dependable service.

Catalog Number	Size	Square Open	Tracks	Net Weight
MT7	7"	1-1/4"	4	6 oz.
MT10	10"	1-1/2"	5	12 oz.
MT12	12"	2-3/8"	6	1 lb. 10 oz.

Pipe Wrench Plier



MTP10

90° Offset Jaws offer 20% more leverage.

Reach where other pliers will not go. Jaws feature pipe wrench style teeth and are offset 90° to create 20% more leverage than conventional 32° angled jaws. Machined tongue and groove eliminates wear and strain on bolt. And a special handle stop prevents pliers from pinching fingers. Satin chrome finish with comfortable vinyl cushion grips.

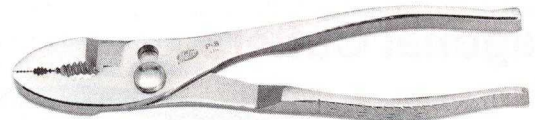
Catalog Number	Length	Net Weight
MTP10	10"	12 oz.

Slip Joint Pliers

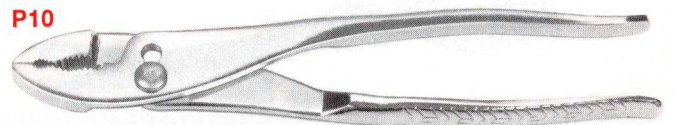
P6



P8



P10



Extra hard, deep, sharply cut teeth insure a long life, non-slip bite. Wire cutters are placed just ahead of bolt to obtain maximum leverage. Plier halves are drop forged from high grade alloy tool steel and fully heat treated. Finish is nickel chrome plate with full polished faces and knurled handles.

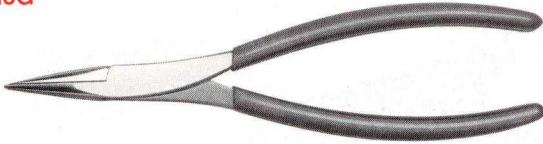
Catalog Number	Length	Net Weight
P6	6"	6 oz.
P8	8"	8 oz.
P10	10"	10 oz.



WRENCHES AND PLIERS

Chain Nose Plier

LCN8G

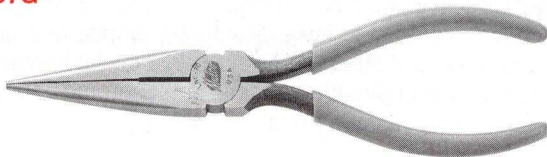


Shallow throat chain nose plier is designed to give user a long reach, good grip and firm hold. Slim contour allows chain nose access to places where fingers or ordinary pliers will not go. Tempered steel. Polished faces. Handles are comfort designed with red vinyl grips.

Catalog Number	Length	Net Weight
LCN8G	8"	6-1/2 oz.

Long Nose Pliers

LNC7G

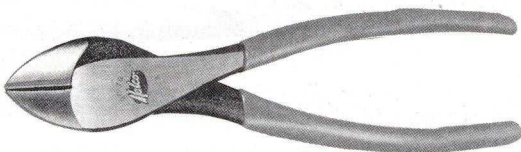


Long reach cutter style pliers are suited for a variety of jobs. Jaws comprise 1/3 of total length. Smooth functioning box joint insures accurate alignment of cutter edges. Milled jaws firmly grip out to very tip of nose. Tempered steel with polished finish faces. Handles are palm-fitting design with red vinyl non-slip cushion grips.

Catalog Number	Length	Net Weight
LNC6G	6-3/4"	4-1/2 oz.
LNC7G	7-3/4"	5-1/2 oz.

Diagonal Cutters

DC6G

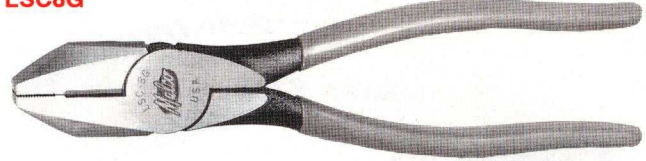


Powerful leverage short nose is designed to cut flush from side without obstructing handle grip. Absence of flat gripping surface on jaws allows tool to cut out to very tip. (Diagonal cutters are the only tools capable of reaching into an electrical box to cut wires). Smooth functioning box joint insures accurate alignment of cutting edges. Forged from high quality alloy steel. Hardened and tempered for long life. Polished faces. Red vinyl cushion grips.

Catalog Number	Length	Net Weight
DC6G	7-1/4"	5 oz.
DC7G	8-1/4"	8 oz.

Lineman's Side Cutters

LSC8G



Precision pliers are rugged design with powerful leverage for pulling and cutting heavy wires. Carefully matched cutting edges and milled gripping surface are specially hardened and tempered for long life. Forged from high quality alloy steel. Polished faces. Comfort designed handles with red vinyl cushion grips.

NEW ENGLAND STYLE



LSC9G

High leverage plier is designed for cutting number 8 and other large wires. Forged from high quality alloy steel. Precision matched cutting edges are induction hardened. Jaw rivet is offset for increased leverage. Built in insulation crusher. Red vinyl cushion grips.

Catalog Number	Length	Net Weight
LSC7G	7-1/2"	10-1/2 oz.
LSC8G	8-1/2"	14-1/2 oz.
LSC9G	9-1/2"	1 lb. 4 oz.

Electrical Tape



ET3

Flame retardant - cold and weather resistant. Virgin vinyl plastic electrical tape stretches to correct tension without breaking and conforms perfectly. Flows to fit sharp contours from 0°F to 100°F. Once wrapped, stays down from -40°F to +176°F. 8500 volt dielectric strength.

Catalog Number	Dimensions	Thickness
ET3	3/4" x 66'	8.5 mils

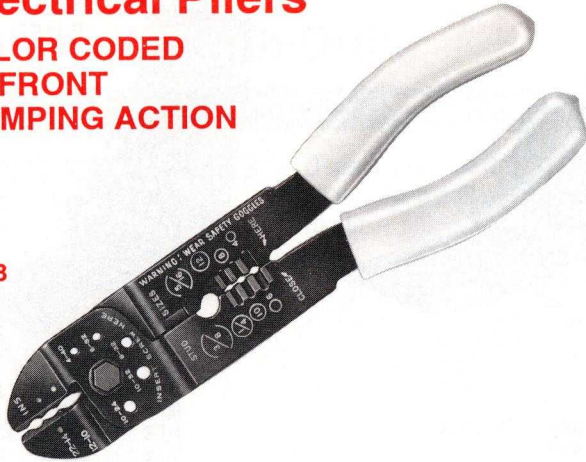
WRENCHES AND PLIERS



Electrical Pliers

**COLOR CODED
UP FRONT
CRIMPING ACTION**

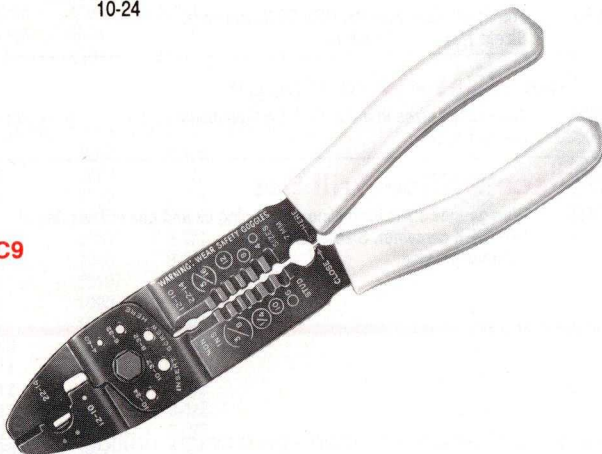
PC8



Insulated terminal crimper for terminals 12-10 (yellow) and 22-14 (red and blue). Also crimps 7-8 mm auto ignition terminals. Cuts bolts with perfect rethread and strips wire sizes 12, 14 and 16. Constructed of induction hardened alloy steel. Pivot joint is made of hardened steel lifetime bushing. Black oxide oil finish with paint marking to highlight crimping functions. Red vinyl grips are comfortable, three pocket air cushion type.

Catalog Number	Capacities Bolt	Cutting	Crimping	Stripping	Length	Net Wt.
PC8	4-40 6-32	8-32 10-32 10-24	22-10 ga.	12, 14, 16 ga.	7-1/2"	6 oz.

PC9

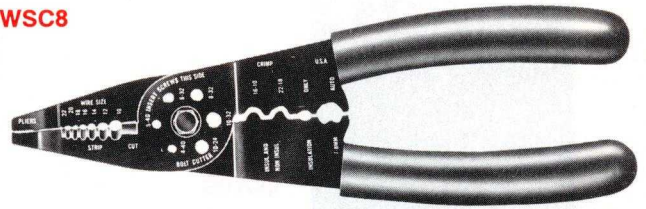


Insulated and uninsulated terminal and splice crimper with wire cutter up front. Crimps insulated terminal sizes 12-10 (yellow) and 22-14 (red and blue). Tool also crimps uninsulated terminals 22-10 and 7-8 mm auto ignition terminals. Cuts bolts with perfect rethread and features six wire stripping stations for 22-10 ga. Constructed of induction hardened alloy steel. Pivot joint is made of hardened steel lifetime bushing. Black oxide oil finish with paint markings to highlight crimping functions. Red vinyl grips are comfortable, three pocket air cushion type.

Catalog Number	Capacities Bolt	Cutting	Crimping	Stripping	Length	Net Wt.
PC9	4-40 6-32	8-32 10-32 10-24	22-10 ga.	22-10 ga.	8-3/4"	7 oz.

Electrical Pliers CUTTER/STRIPPER/CRIMPER

WSC8



Up front scissors action strips copper wire clean and cuts easily sizes 10 thru 20. Bolt cutters leave a perfect rethread. Plier nose features serrated jaw and slim profile for pulling and putting loops on wire. Crimps all insulated and non-insulated solderless terminals including 7-8 mm auto. Lifetime pivot point assures greater joint strength and adds easy, precise adjustment capability. Black oxide, satin finish steel. Extra large red vinyl cushion grips.

Catalog Number	Capacities Bolt	Cutting	Crimping	Stripping	Length	Net Wt.
WSC8	4-40 5-40 6-32	8-32 10-32 10-24	22-10 ga.	22-10 ga.	8-1/4"	8 oz.

Cutters/Strippers COMBINATION AWG-METRIC

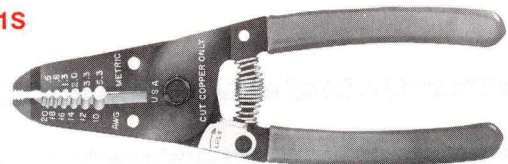
WSC1



Up front scissors action for stripping and cutting AWG sizes 10, 12, 14, 16, 18, 22-20; Metric sizes 5.3 mm, 3.3 mm, 2.0 mm, 1.3 mm, .8 mm and .5 mm. Features plier nose for pulling and putting loops on wire. Hardened steel bushing and adjustable lock washer assure long wear. Black oxide, satin finished steel. Red vinyl cushion grips.

SPRING ACTION TYPE

WSC1S



Same as above with added features of automatic spring opening, to increase speed of stripping operation and convenient lock to protect precision cutting surfaces when not in use.

Catalog Number	Capacities AWG	Metric	Length	Net Weight
WSC1	22-10 ga.	.5-5.3 mm	6"	4 oz.
WSC1S	22-10 ga.	.5-5.3 mm	6"	4 oz.

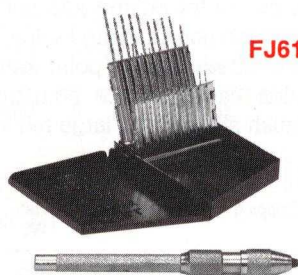


DRILL BITS

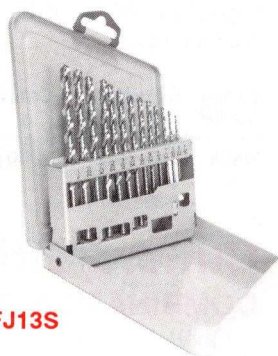
Jobber Drill Sets



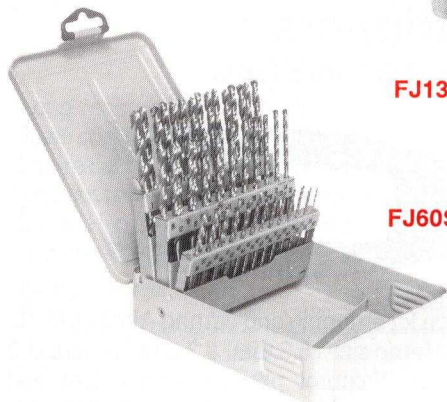
FJ10S



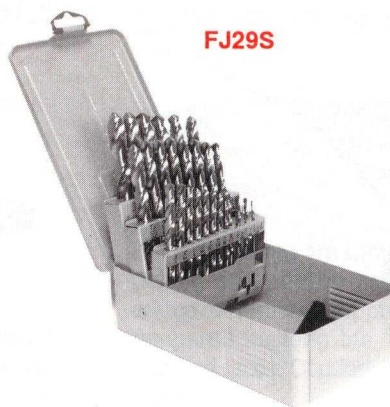
FJ6180



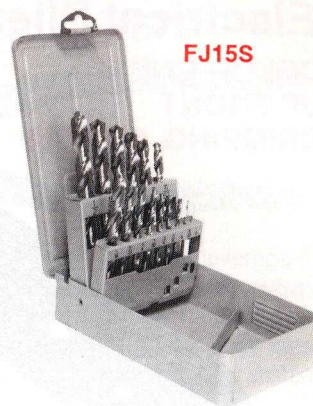
FJ13S



FJ60S



FJ29S



FJ15S

Catalog Number Description

10 Piece Set

FJ10S Fractional sizes in plastic pouch: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/4".

13 Piece Set

FJ13S Fractional sizes in metal DRILDEX container. Sizes: 1/16 to 1/4" x 64ths.

15 Piece Set

FJ15S Fractional sizes in metal DRILDEX container. Sizes: 1/16 to 1/2" x 32nds.

29 Piece Set

FJ29S Fractional sizes in metal DRILDEX container. Sizes: 1/16 to 1/2" x 64ths.

60 Piece Set - Wire Gauge

FJ60S Wire gauge sizes in metal DRILDEX container. Sizes: 1 to 60.

20 Piece Orifice Drill Set

FJ6180 Wire gauges sizes for drilling or cleaning oil and gas orifices. Metal DRILDEX container. Sizes: 61 to 80. Includes pin vise.

CARBIDE TIPPED Rotary-Percussion Bits



Use in any rotary or rotary percussion drilling device for unexcelled performance in brick, tile, granite, concrete, masonry and other similar hard and dense materials. Brazed tungsten carbide tips have 120° chamfer and are specially tempered for strength and long life. Drill body is chrome vanadium steel.

Catalog Number	Bit Dia.	Shank Dia.	O/A Lgth.
RP01	1/8"	1/8"	3"
RP04	3/16"	3/16"	3-1/2"
RP08	15/64"	15/64"	4"
RP09	1/4"	1/4"	4-1/4"
RP10	1/4"	1/4"	6"
RP18	5/16"	5/16"	4-3/4"
RP19	5/16"	1/4"	4-3/4"
RP31	3/8"	1/4"	6"
RP46	1/2"	3/8"	6-3/4"
RP47	1/2"	1/4"	6-3/4"

DRILL BITS



HIGH SPEED Jobber Length Drills



FRACTIONAL SIZES

Catalog Number	Decimal Equiv. Inches	Length Overall Inches
FJ1/16	.0626	1-7/8
FJ5/64	.0781	2
FJ3/32	.0938	2-1/4
FJ7/64	.1094	2-5/8
FJ1/8	.1250	2-3/4
FJ9/64	.1406	2-7/8
FJ5/32	.1562	3-1/8
FJ11/64	.1719	3-1/4
FJ3/16	.1875	3-1/2
FJ13/64	.2031	3-5/8
FJ7/32	.2188	3-3/4
FJ15/64	.2344	3-7/8
FJ1/4	.2500	4
FJ17/64	.2656	4-1/8
FJ9/32	.2812	4-1/4
FJ19/64	.2969	4-3/8
FJ5/16	.3125	4-1/2
FJ21/64	.3281	4-5/8
FJ11/32	.3438	4-3/4
FJ23/64	.3594	4-7/8
FJ3/8	.3750	5
FJ25/64	.3906	5-1/8
FJ13/32	.4062	5-1/4
FJ27/64	.4219	5-3/8
FJ7/16	.4375	5-1/2
FJ29/64	.4531	5-5/8
FJ15/32	.4688	5-3/4
FJ31/64	.4844	5-7/8
FJ1/2	.5000	6

WIRE GAUGE SIZES

FJ1	.2280	3-7/8
FJ2	.2210	3-7/8
FJ3	.2130	3-3/4
FJ4	.2090	3-3/4
FJ5	.2055	3-3/4
FJ6	.2040	3-3/4
FJ7	.2010	3-5/8
FJ8	.1990	3-5/8
FJ9	.1960	3-5/8
FJ10	.1935	3-5/8
FJ11	.1910	3-1/2
FJ12	.1890	3-1/2
FJ13	.1850	3-1/2
FJ14	.1820	3-3/8
FJ15	.1800	3-3/8
FJ16	.1770	3-3/8
FJ17	.1730	3-3/8
FJ18	.1695	3-1/4
FJ19	.1660	3-1/4
FJ20	.1610	3-1/4
FJ21	.1590	3-1/4
FJ22	.1570	3-1/8
FJ23	.1540	3-1/8
FJ24	.1520	3-1/8
FJ25	.1495	3
FJ26	.1470	3
FJ27	.1440	3
FJ28	.1405	2-7/8
FJ29	.1360	2-7/8
FJ30	.1285	2-3/4
FJ31	.1200	2-3/4
FJ32	.1180	2-3/4
FJ33	.1130	2-5/8
FJ34	.1110	2-5/8
FJ35	.1100	2-5/8
FJ36	.1085	2-1/2

General purpose drills. 118° conventional point angle allows deep drilling in a variety of materials including metal.

Pin Vise



PV1

Actual Size

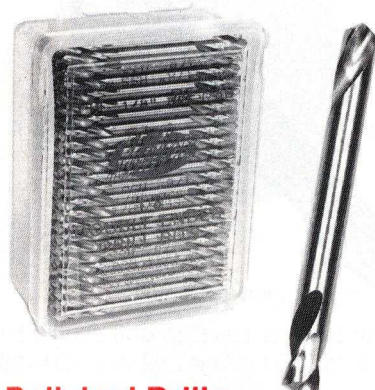
Use in hand or insert in drill chuck. Pin Vise holds wire gauge drill sizes 49 to 90.

Catalog Number	Capacity	Length
PV1	Gauge sizes 49 to 90	3"



DRILL BITS

Double Enders



Polished Drills

Catalog Number	Decimal Equiv. Inches	Length Overall Inches	Length of twist Inches
DE7/64	.1093	1-13/16	1/2
DE1/8	.1250	2	1/2
DE30	.1285	2	1/2
DE9/64	.1406	1-15/16	1/2
DE5/32	.1562	2-1/16	1/2
DE3/16	.1875	2-3/16	1/2
DE7/32	.2187	2-3/8	1/2
DE1/4	.2500	2-1/2	1/2

Double Enders in Bulk Boxes

Catalog Number	Description
DE1/8B	144 Bulk Double Enders
DE30B	144 Bulk Double Enders

Black Nitrided Drills

Catalog Number	Decimal Equiv. Inches	Length Overall Inches	Length of twist Inches
NDE1/8	.1250	2	1/2
NDE30	.1285	2	1/2

Punch Drills



PD1/8	.1250	1-1/4	1/2
PD30	.1285	1-1/4	1/2

Sheeter's (Body) Drills



SD1/8	.1250	2	3/8
SD30	.1285	2	3/8

Sheet Metal Drills



Sheet metal drills with 135° split point design bite into metal precisely where wanted - will not wander.

Catalog Number	Decimal Equiv. Inches	Length Overall Inches
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FRACTIONAL SIZES

FS1/16	.0625	1-5/8
FS5/64	.0781	1-11/16
FS3/32	.0937	1-3/4
FS7/64	.1093	1-13/16
FS1/8	.1250	1-7/8
FS9/64	.1406	1-15/16
FS5/32	.1562	2-1/16
FS11/64	.1718	2-1/8
FS3/16	.1875	2-3/16
FS13/64	.2031	2-1/4
FS7/32	.2187	2-3/8
FS15/64	.2343	2-7/16
FS1/4	.2500	2-1/2

FS Series with 1/4" reduced shank

FS9/32	.2812	2-11/16
FS5/16	.3125	2-13/16
FS11/32	.3437	3
FS3/8	.3750	3-1/8
FS13/32	.4062	3-5/16
FS7/16	.4375	3-7/16
FS15/32	.4687	3-5/8
FS1/2	.5000	3-3/4

Wire Gauge Sizes

FS1	.2280	2-7/16
FS3	.2130	2-3/8
FS4	.2090	2-3/8
FS7	.2010	2-1/4
FS11	.1910	2-1/4
FS20	.1610	2-1/8
FS29	.1360	1-15/16
FS30	.1285	1-15/16
FS31	.1200	1-7/8

POLISHED DRILLS

PFS1/8	.1250	1-7/8
PFS30	.1285	1-15/16
PFS9/64	.1406	1-15/16
PFS5/32	.1562	2-1/16
PFS3/16	.1875	2-3/16
PFS1/4	.2500	2-1/2

BLACK NITRIDED DRILLS

NFS7/64	.1093	1-13/16
NFS1/8	.1250	1-7/8
NFS30	.1285	1-15/16
NFS9/64	.1406	1-15/16
NFS5/32	.1562	2-1/16
NFS3/16	.1875	2-3/16
NFS7/32	.2187	2-3/8
NFS1/4	.2500	2-1/2

Sheet Metal Drill Sets

10 PIECE SET



FS10S

Fractional sizes in plastic pouch.

Catalog Number	Description
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FS10S	Sizes: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/4" stub length
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15 PIECE SET



FS152S

Fractional sizes in plastic pouch.

Catalog Number	Description
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FS152S	Sizes 1/16 to 1/2" x 32nds. Shanks over 1/4" reduced to 1/4"
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DRILL BITS



SPADE TYPE Wood Bits



WB38

WB34

WB1

Unique designed ground points and cutting edges drill faster, cleaner holes, using less power than standard spade type bits. Cut straight or angled holes in soft and hard woods, plus formica, plaster, chipboard, foam core material, many non-metallic building sidings and foam insulation. Made of one-piece special heat treated tool grade steel. Six "flat" 1/4" shank fits securely in conventional chucks. Easy to spot "size marking" is stamped on head. Bits also feature "head hole" for convenient storage and wire pulling. Resharpenable with saw file or grinder. Available individually or in sets. 12" extension also available. See below.

Catalog Number	Diam.	Overall Length	Shank Diam.
WB14	1/4"	6-1/8"	1/4"
WB516	5/16"	6-1/8"	1/4"
WB38	3/8"	6-1/8"	1/4"
WB716	7/16"	6-1/8"	1/4"
WB12	1/2"	6-1/4"	1/4"
WB916	9/16"	6-1/4"	1/4"
WB58	5/8"	6-1/4"	1/4"
WB1116	11/16"	6-1/4"	1/4"
WB34	3/4"	6-1/4"	1/4"
WB1316	13/16"	6-1/4"	1/4"
WB78	7/8"	6-1/4"	1/4"
WB1516	15/16"	6-1/4"	1/4"
WB1	1"	6-1/4"	1/4"
WB118	1-1/8"	6-3/4"	1/4"
WB114	1-1/4"	6-3/4"	1/4"
WB138	1-3/8"	6-3/4"	1/4"
WB112	1-1/2"	6-3/4"	1/4"

WOOD BIT KITS

Catalog Number	Description
WB6K	6 piece set: 3/8", 1/2", 5/8", 3/4", 7/8" and 1"
WB13K	13 piece set: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16" and 1"

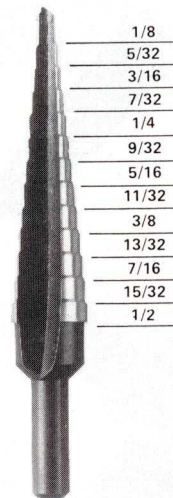
WOOD BIT EXTENSION



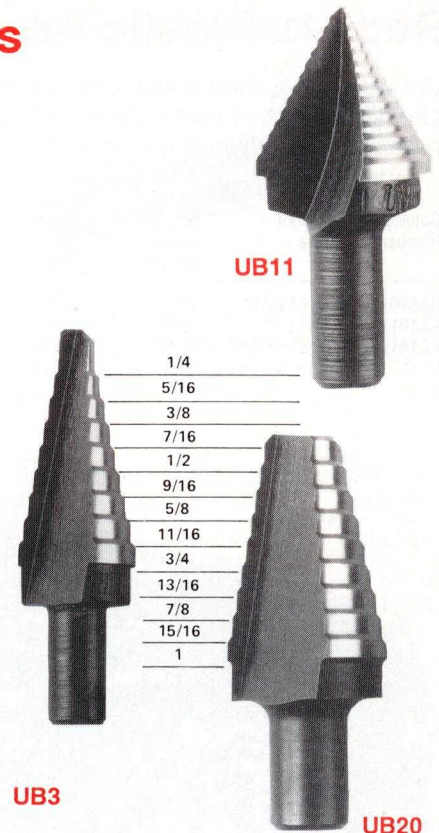
WBEX

WBEX	—	12"	1/4"
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Step Drills



UB1

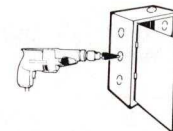
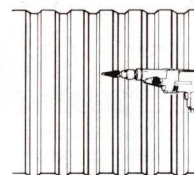


UB11

UB3

UB20

A unique single flute design assures the penetration of soft or thin materials at the proper speed. Drill hole sizes from 1/8" to 1" in sheet metal without burring or deforming stock or threading drill bit. Malco Step Drills actually deburr as they drill. Perfect for use as a "hole-opening" reamer. They can also be used for making round holes from slots or intersecting holes. Made of industrial grade high speed steel. Malco Step Drills are heat treated and tempered to assure maximum strength for long wearing rugged use. Completely resharpenable.



Catalog Number	Description	Depth Each Step	Elect. Drill Size	Pilot Hole Req.
UB1	Drills 13 hole sizes from 1/8" to 1/2" diameter in 1/32" increments.	1/8"	1/4"	No
UB20	Drills 8 hole sizes from 9/16" to 1" diameter in 1/16" increments.	1/8"	1/2"	1/2"
UB3	Drills 9 hole sizes from 1/4" to 3/4" diameter in 1/16" increments.	1/8"	3/8"	No
UB11	Drills single hole size 7/8" diameter for creating 1/2" knock outs.	N/A	3/8"	No



ANCHORS

Red Lip Plastic Anchors

Use with wood, sheet metal or lag screws. Flexible anchor is ideal for masonry or stone. Lip on collar prevents anchor from pushing through hole in hollow walls.

Catalog Number	Anchor Size	For Screw Size(s)	Uses Bit Dia.
PA810	3/16" x 7/8"	8-9-10	3/16"
PA1012	1/4" x 1"	10-12	1/4"
PA1416	5/16" x 1-3/8"	14-16	5/16"



PA1012K

All kits contain anchors, equal quantities of screws, 1 matching carbide tipped drill bit and a reusable hinged clear vinyl box.

"Red Lip" Plastic Anchor Kits with slotted pan head screws

Catalog Number	Anchor Size	Screw Size(s)	Uses Bit Dia.	Anchor Kit Contains
PA810K	3/16" x 7/8"	SP8x1	3/16"	100 Red Lip anchors
PA1012K	1/4" x 1"	SP10x1-1/4	1/4"	100 Red Lip anchors
PA1416K	5/16" x 1-3/8"	SP14x1-1/2	5/16"	50 Red Lip anchors

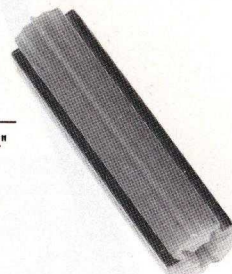
Kits with hex washer head screws

Catalog Number	Anchor Size	Screw Size(s)	Uses Bit Dia.	Anchor Kit Contains
PA810KW	3/16" x 7/8"	HW8x1	3/16"	100 Red Lip anchors
PA1012KW	1/4" x 1"	HW10x1	1/4"	100 Red Lip anchors

Vinyl Plastic Screw Anchors

Smaller diameter than metal anchors, vinyl anchors are self centering, will not turn in hole, crack or splinter. Can be re-cut for shorter lengths. They resist chemicals, rust and corrosion. No lubrication needed.

Catalog Number	Anchor Size	For Screw Size(s)	Uses Bit Dia.
VA1R	1" Red	7-8-9	15/64"
VA1G	1" Green	10-12	1/4"
VA1 1/4 G	1-1/4" Green	10-12	1/4"
VA1B	1" Blue	14	5/16"



VA1G

All kits contain anchors, equal quantities of screws, 1 matching carbide tipped drill bit and a reusable hinged clear vinyl box.

Vinyl Plastic Screw Anchor Kits with slotted pan head screws

Catalog Number	Anchor Size	Screw Size(s)	Uses Bit Dia.	Anchor Kits Contains
VA1RK	1" Red	SP8x1	15/64"	100 Vinyl anchors
VA1GK	1" Green	SP12x1	1/4"	100 Vinyl anchors
VA1BK	1" Blue	SP14x1	5/16"	50 Vinyl anchors

Machine Screws

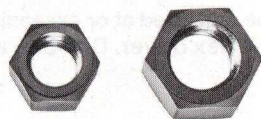
ZINC PLATED STEEL
FULL N.C. THREAD



Catalog Number Round Head	Diameter or ASG Number	Threads Per Inch
M3/16x1/2	10-(3/16)	24
M3/16x3/4	10-(3/16)	24
M3/16x1	10-(3/16)	24
M3/16x1-1/4	10-(3/16)	24
M3/16x1-1/2	10-(3/16)	24
M3/16x2	10-(3/16)	24
M1/4x1/2	1/4	20
M1/4x3/4	1/4	20
M1/4x1	1/4	20
M1/4x1-1/4	1/4	20
M1/4x1-1/2	1/4	20
M1/4x2	1/4	20

Machine Screw Nuts

DOUBLE CHAMFERED
N.C. THREAD HEXAGON
ZINC PLATED STEEL



Catalog Number	Size	Width Across Flats	Thickness
MSN3/16	(3/16) 10-24	3/8"	1/8"
MSN1/4	1/4-20	7/16"	3/16"

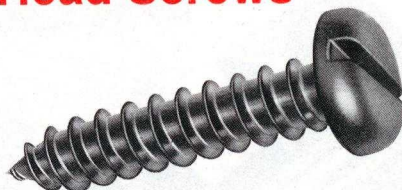
Finished Hexagon Nuts

ZINC PLATED
FULL THICKNESS N.C.
THREAD



Catalog Number	Size	Width Across Flats	Thickness
HN1/4	1/4-20	7/16"	7/32"
HN3/8	3/8-16	9/16"	21/64"
HN1/2	1/2-13	3/4"	7/16"

Slotted Pan Head Screws

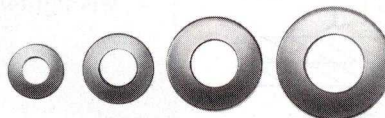


Hand driving-all fastening application
sheet metal screws. Zinc plated steel.
Type A thread. Slotted pan head.

Catalog Number	Catalog Number
SP6x3/8	SP10x1-1/2
SP7x1/2	SP10x2
SP8x1/2	SP10x2-1/2
SP8x3/4	SP10x3
SP8x1	SP12x3/4
SP8x1-1/4	SP12x1
SP8x1-1/2	SP12x1-1/4
SP8x2	SP12x1-1/2
SP8x2-1/2	SP12x2
SP8x3	SP14x1
SP10x1/2	SP14x1-1/2
SP10x3/4	
SP10x1	
SP10x1-1/4	

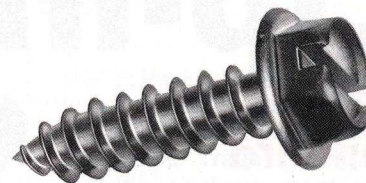
S.A.E. Steel Washers

ZINC PLATED



Catalog Number	Bolt Dia.	O.D.	I.D.	Thickness U.S. St. Ga.	Inches
WW1/4	1/4"	5/8"	9/32"	16	1/16"
WW3/8	3/8"	13/16"	13/32"	16	1/16"
WW1/2	1/2"	1-1/16"	17/32"	13	3/32"
WW5/8	5/8"	1-5/16"	21/32"	13	3/32"

Drill-in Screws



High quality standard self drilling sheet
metal screws. Zinc plated steel. Type A
single thread. Indented hex washer slotted
head.

1/4" HEAD SIZE Catalog No.	5/16" HEAD SIZE Catalog No.	3/8" HEAD SIZE Catalog No.
HW6x3/8	HW10x1-1/4	HW14x3/4
HW7x1/2	HW10x1-1/2	HW14x1
HW7x3/4	HW10x2	HW14x1-1/4
HW7x1	HW12x3/4	HW14x1-1/2
HW8x1/2	HW12x1	HW14x2
HW8x3/4	HW12x1-1/4	
HW8x1	HW12x1-1/2	
HW8x1-1/4	HW12x2	
HW8x1-1/2		
HW8x2		
HW10x1/2		
HW10x3/4		
HW10x1		

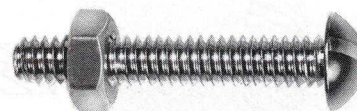
Stainless Steel Drill-in Screws

1/4" HEAD SIZE

Catalog No.

HW8x1/2SS
HW8x3/4SS

Stove Bolts



Zinc plated steel. Full N.C. thread. Hex
nuts are double chamfered.

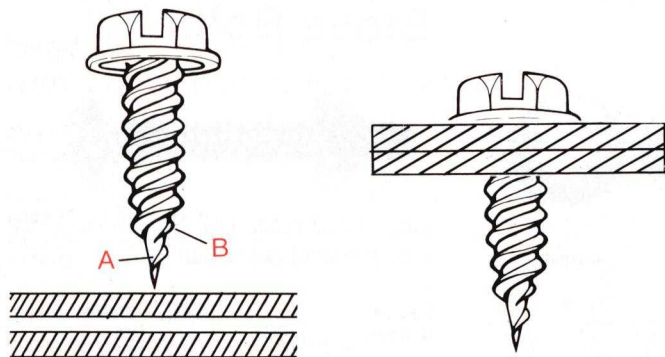
Catalog Number	Dia. /ASG No.	Size	Threads Per Inch
S3/16x1/2	3/16"	10	24
S3/16x3/4	3/16"	10	24
S3/16x1	3/16"	10	24
S3/16x1-1/4	3/16"	10	24
S3/16x1-1/2	3/16"	10	24
S3/16x2	3/16"	10	24
S1/4x1/2	1/4"	20	20
S1/4x3/4	1/4"	20	20
S1/4x1	1/4"	20	20
S1/4x1-1/4	1/4"	20	20
S1/4x1-1/2	1/4"	20	20
S1/4x2	1/4"	20	20



FASTENERS

Zip-inTM

The
Standard
by which
all others
are
judged.



A unique thread design and quality controlled manufacture spell the Zip-inTM difference. Zip-in'sTM sophisticated heat treat process allows the screw to taper to a fine, sharp point without sacrificing critical point strength. A single starting thread (A) is machined down to the very tip of the point and is the source of Zip-in'sTM penetrating power. A second thread (B) above the point engages after initial penetration and moves the screw in double fast. Zip-inTM screws are faster driving, with a greater capacity for fastening heavier gauges of sheet metal than any other self-drilling types.

Burr Free. Hex Washer
Slotted Head · Full 1/4"
(No. 8) head will not strip
out of hex driver opening
· One 1/4" hex driver
accommodated all sizes ·
Undercut - always seats flush.

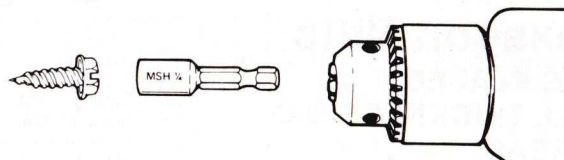
**COMBINATION LEAD
DOUBLE THREAD DESIGN** · Single
starting thread machined down to very
tip of screw point · Instantly penetrates and
engages in heavy gauge sheet metal and
layered light gauge.

CONSISTENT HARD POINT ·
Quality controlled heat treat ·
Sharp tapered point will not mushroom
or break · No Walking · Complete operator
control - precise hole alignment

DRIVING TECHNIQUE

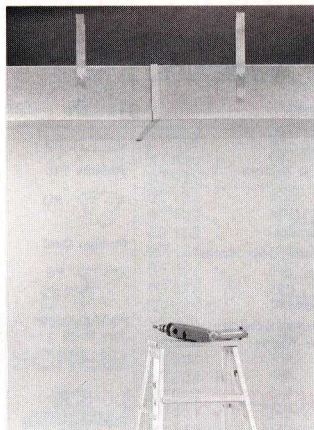
For Standard 1/4" Electric Drills

1. Use a high speed, low torque drill rated at or exceeding 1700 R.P.M. and a magnetic hex driver. Drill bits are not required.
2. Insert screw into hex driver
3. Install by pressing point of screw firmly against the metal to be fastened and start drill. Release drill trigger as soon as screw threads engage metal. Drill will tighten screw without stripping.



Driving technique may vary for lower speed, cordless drills or drills and screw guns with adjustable torques and or automatic clutch features. **Malco's Zip-inTM screws offer superior performance at virtually any drill or screw gun speed.** Consult the power tool manufacturer for specific driving technique recommendations.

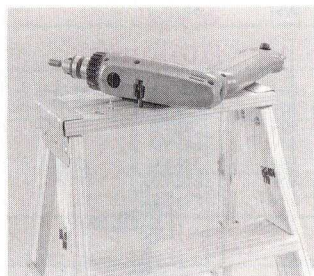
PROVEN POINTS



POINT: For the job at hand. Zip-in penetrates multiple layers and heavier gauges of sheet metal faster than any other self piercing screw.

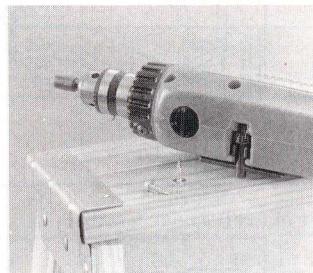


POINT: For the installer. Whether you put your full body weight into the job or have to reach up to the work, Zip-in screws quickly engage and will not spin out.



POINT: For tools of the trade. Zip-in screws are faster driving at every drill or screw gun speed. The Zip-in difference is most dramatic at slower speeds associated with battery powered drills where other screws may fail without adequate driving pressure.

POINT: For points well made. Zip-in's combination lead thread design has often been imitated, but never equaled for consistent quality and value. Zip-in screws are virtually failure proof.



SUMMARY: Points Well Taken. Zip-in screws are clearly a superior value to all other brands of self drilling screws. Zip-in consistently outperforms the competition in every material thickness, at every pressure applied by the installer, and at every drill speed. They are not only time saving, but require considerably less effort to install. **Installers using lower speed, battery power drills (500 and 1000 R.P.M.) will especially save time, effort and battery life by using Zip-in Screws.** World class manufacturing and quality control results in the world's best self drilling screw; and it's only available from Malco. Zip-in, the standard by which all others are judged.

Zip-in™ Screws

Catalog Number	Head Size
HW6x3/8Z	1/4"
HW7x1/2Z	1/4"
HW8x1/2Z	1/4"
HW8x3/4Z	1/4"
HW8x1Z	1/4"
HW8x1-1/2Z	1/4"
HW8x2Z	1/4"
HW10x1/2Z	1/4"
HW10x3/4Z	1/4"
HW10x1Z	1/4"

NOTE: Package sizes available in handy boxes, bags, tubs or bulks. Consult your Malco Suggested Trade Prices for specific package quantities available for each size. **COUNT ON MALCO FOR FULL, ACCURATE PIECE COUNTS IN EVERY ZIP-IN PACKAGE YOU BUY.**

Painted Zip-in™

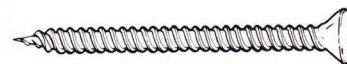
RB=Royal Brown
MB=Musket Bronze

W=White
CC=Classic Cream

Catalog Number	Head Size
HW6x3/8ZRB	1/4"
HW6x3/8ZW	1/4"
HW7x1/2ZCC	1/4"
HW7x1/2ZRB	1/4"
HW7x1/2ZW	1/4"
HW7x1/2ZMB	1/4"
HW8x3/4ZRB	1/4"
HW8x3/4ZW	1/4"
HW8x1ZRB	1/4"
HW8x1ZW	1/4"
HW8x1-1/2ZW	1/4"

Zip-in™ REGISTER SCREWS

Catalog Number	Point Size
P08x2ZW	#2



Zip-in™ Kit

HWZ1K



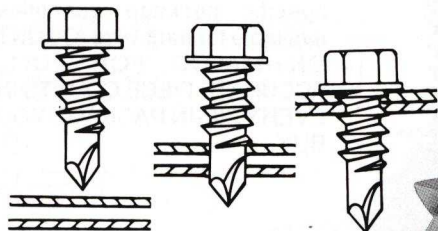
Contains five Zip-in™ sizes plus a MSH1/4 hex chuck driver. Ideal for maintenance applications. A handy addition to any tool box. Packaged in a compact refillable plastic case. Plastic case with positive locking catch will not spill over and is unbreakable with normal use.

Catalog Number	Description
HWZ1K	Plastic case containing one MSH1/4 and 100 each HW7x1/2Z, HW8x1/2Z, HW8x3/4Z, HW10x1/2Z and HW10x3/4Z.



FASTENERS

BIT-TIP® Drill & Tap Screws



BIT-TIP®

drills it's own hole, taps a matching thread and fastens in steel up to .220 thick in less time than it takes to drill a pilot hole for other standard fasteners.

THE ONE OPERATION FASTENER WITH THE TRUE DRILLING ACTION POINT!

By drilling its own hole, Bit-Tip® produces the optimum hole size, resulting in better thread engagement and a tighter fit. One operation fastening also means no alignment problems.

Bit-Tip® has a wide range of industry applications. Select the Bit-Tip® that's right for the job. Point length will determine metal thickness that can be drilled, tapped and fastened. Also, plywood, soft wood, composition board, drywall, insulation and laminates may be fastened to metal framing or components.

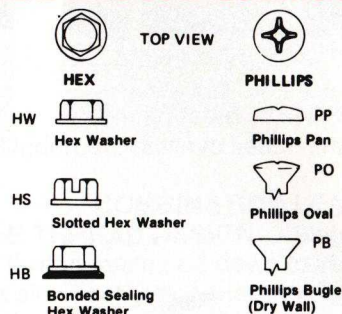
Made from strong, high quality, specially heat treated steel. Bit-Tip® Self Drilling and Tapping Screws are precision cold forged insuring uniformity of dimension and drill point contours.

The versatile Bit-Tip® Screw is an excellent replacement for fastening operations now using rivets, nuts and bolts, spot welds or adhesives. Bit-Tip® also eliminates the need for costly auxiliary fastening equipment such as drill bits, taps and welding equipment.

Requires only a standard screw gun power tool rated at 2500 RPM equipped with drilling depth locator.

*Bit-Tip is a Trade Mark of Malco Products, Inc. ©1989 Malco Products, Inc.

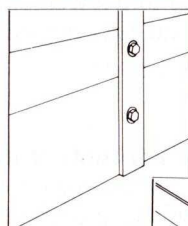
HEAD TYPE CONFIGURATION



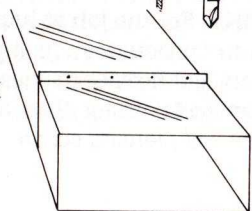
INDUSTRIAL APPLICATIONS

Sheet Metal

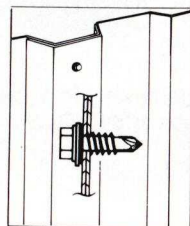
STRUCTURAL



DUCT WORK

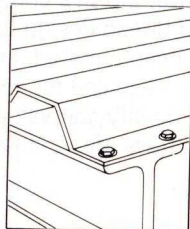


Metal Building

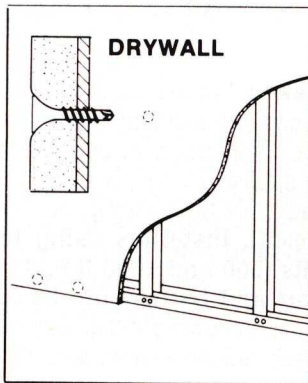


SHEET TO SHEET

SHEET TO STRUCTURE



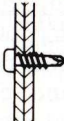
GLAZING



DRYWALL

Construction

METAL FRAMING



BIT-TIP® SCREW SELECTION

Material thickness recommendation for Bit-Tips

SELECTION				For This Material Thickness			
Catalog Number	Head Type	Screw Size	Driver Size	.050	.100	.150	.200
HEX WASHER, SLOTTED HEX WASHER, PHILLIPS PAN HEAD (ZINC PLATED) BIT-TIP®							
BIT-TIP SCREW #2 POINT	BT310	PP	6-32x3/8	No. 2	.035		.090
	BT320	PP	6-20x3/8	No. 2			
	BT321	PP	6-20x1/2	No. 2			
	BT131	HW	8-18x1/2	1/4	.035		.100
	BT132	HW	8-18x5/8	1/4			
	BT133	HW	8-18x3/4	1/4			
	BT134	HW	8-18x1	1/4			
	BT231	HS	8-18x1/2	1/4			
	BT233	HS	8-18x3/4	1/4			
	BT234	HS	8-18x1	1/4			
	BT331	PP	8-18x1/2	No. 2			
	BT332	PP	8-18x5/8	No. 2			
	BT333	PP	8-18x3/4	No. 2			
	BT334	PP	8-18x1	No. 2			
	BT336	PP	8-18x1½	No. 2			
	BT141	HW	10-16x1/2	5/16	.035		.110
	BT142	HW	10-16x5/8	5/16			
	BT143	HW	10-16x3/4	5/16			
	BT144	HW	10-16x1	5/16			
	BT145	HW	10-16x1¼	5/16			
#3	BT153	HW	10-24x3/4	5/16		.110	.175
	BT154	HW	10-24x1	5/16			
	BT156	HW	10-24x1½	5/16			
#2	BT341	PP	10-16x1/2	No. 2	.035		.110
	BT343	PP	10-16x3/4	No. 2			
#3	BT163	HW	12-14x3/4	5/16		.110	.210
	BT164	HW	12-14x1	5/16			
	BT166	HW	12-14x1½	5/16			
	BT173	HW	¼-14x3/4	3/8			.220
	BT174	HW	¼-14x1	3/8			
	BT183	HW	¼-20x3/4	3/8			
	BT184	HW	¼-20x1	3/8			

BONDED SEALING TYPE HEX WASHER HEAD (ZINC PLATED) BIT-TIP®

#2	BT442	HB	10-16x5/8	5/16	.035		.110
	BT443	HB	10-16x3/4	5/16			
#3	BT463	HB	12-14x3/4	5/16		.110	.210
	BT464	HB	12-14x1	5/16			
	BT466	HB	12-14x1 1/2	5/16			.220
	BT473	HB	1/4-14x3/4	3/8			
	BT474	HB	1/4-14x1	3/8			

PHILLIPS OVAL HEAD (ZINC PLATED) BIT-TIP®

#2	BT633	PO	8-18x3/4	No. 2	.035		.100
	BT634	PO	8-18x1	No. 2			
	BT635	PO	8-18x1 1/4	No. 2			

PHILLIPS BUGLE HEAD (BLACK PHOSPHATE) BIT-TIP®

#2	BT715	PB	6-20x1 1/4	No. 2	.035		.090
	BT717	PB	6-20x1 3/8	No. 2			
	BT719	PB	6-20x1 1/2	No. 2			

Ultimate Bit-Tip Screw Strengths

Thread Size	Point Size	Pull-out values (lbs.) in common steel gauges.											Tensile Strength (lbs.)	Torsional Strength (lbs.)	
		26	24	22	20	18	16	14	12	1/8	10	3/16			
6	20	#2	141	208	268	331	513	633	874					1125	24
	32	#2	112	202	257	305	485	650	777					1200	24
8	18	#2	150	187	289	334	507	643	977					1575	42
10	16	#2	145	235	295	364	572	708	1.015	1.972				2100	61
	24	#3								1.528	2.120	2.199		2350	65
12	14	#3								1.541	1.990	2.650	3.515	2800	92
1/4	14	#3								1.504	1.818	2.413	3.190	3850	150
	20	#3								1.788	2.330	2.830	4.420	4275	168

Test results furnished are given purely as a guide and do not constitute a warranty of any type. Results may vary by modification to the fastener or in certain applications.



FASTENERS

Blind Rivets



Malco blind rivets provide a strong, secure connection between two or more sheets of material, that will not loosen with vibration. Blind rivet fasteners can be used where access is limited to only one side of the material to be fastened. Rivets require only a pre-drilled or pre-punched hole. The blind rivet is an assembly, consisting of a mandrel and an eyelet body. Mandrels are used only to set the rivet body and are then discarded. Mandrel is designed to break off at the crimp after pulling(setting) the rivet body. No operator skill is required to set blind rivets. Low rivet profile offers cosmetic advantages over screws.

RIVET SELECTION FACTORS

A. Match rivet body material to material to be fastened:

1. Steel material—steel rivet body.
2. Aluminum material—aluminum rivet body.
3. Synthetic material—rivet choice is optional.

B. Choose preferred coating on steel mandrels:

1. Phosphate coated—economical, for indoor applications.
2. Zinc plated—for outdoor applications or wherever resistance to rust is required.

C. Rivet Diameter:

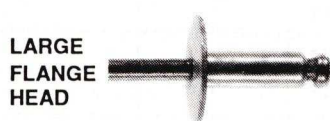
1. Use same rivet diameter as hole size or-
2. If joint load makes fastener strength critical, use Shear and Tensile Strength Specification Chart on next page to select the rivet diameter within joint load requirements.

D. Grip Range:

1. Convert total thickness of material to be fastened to thousandths and refer to "Grip Range" column on the next page. Reference across page to select proper rivet.
2. If grip range of rivet is too short it will not fasten securely. If a longer grip range is substituted, it may take longer to set rivet and more of the rivet body will protrude on blind side of material.



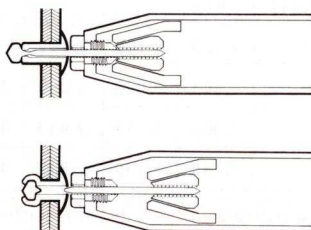
DOMED HEAD



LARGE FLANGE HEAD

INSTALLING RIVETS

1. Insert rivet in nosepiece of tool.
2. Guide tool with rivet still in place and insert rivet into hole.
3. Actuate tool (hand or power) to set rivet.
4. Be sure that "spent mandrel" has been removed from tool.



CATALOG NUMBER CODE EXPLANATION

	①	②	③	④
	S	S	5	2 D J
Steel Rivet				
Steel Mandrel				
Rivet Head Diameter 5/32"				
Grip Range Maximum 1/8"				
Dome Head				
Phosphate coated Mandrel				

	①	②	③
	A	S	4 4 L F
Aluminum Rivet			
Steel Mandrel			
Rivet Head Diameter 1/8"			
Grip Range Maximum 1/4"			
Large Flange Head			

1. METAL

SS = steel rivet with steel mandrel
 SS/S = stainless steel rivet with steel mandrel
 SS/SS = stainless steel rivet with stainless steel mandrel
 CS = copper rivet with steel mandrel
 AS = aluminum rivet with steel mandrel
 AA = aluminum rivet with aluminum mandrel

2. DIMENSION

1st. Number = shows diameter of rivet in 32nds of an inch.
 2nd. Number = shows maximum grip in 16ths of an inch.

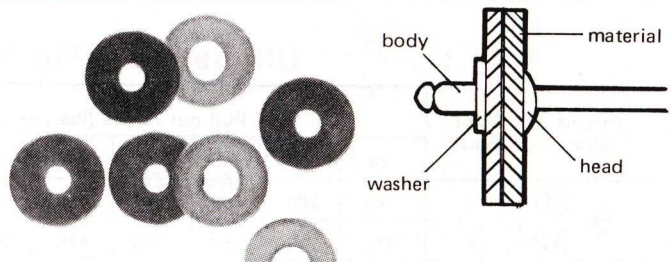
3. HEAD TYPE

D = Dome Head LF = Large Flange Head

4. MANDREL FINISH

J = Designates phosphate coated mandrel
Zinc or copper plated steel and standard aluminum mandrels do not have a "J" designation after Head Type.

Rivet Washers



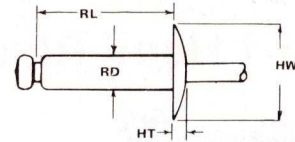
Back up washers for riveting in soft materials. Non-blind applications only. Install washer on rivet head protruding through backside of material to be fastened. Washers are zinc plated steel.

Catalog Number	Size	I.D.	O.D.	Thickness
4RW	1/8"	.130	.500	.0478
5RW	5/32"	.160	.500	.0478
6RW	3/16"	.191	.500	.0478

FASTENERS



Industry's most complete line of quality Blind Rivets



Rivet Dia.	Steel Rivet Coated Steel Mandrel	Aluminum Rivet Coated Steel Mandrel	Steel Rivet Plated Steel Mandrel	Aluminum Rivet Aluminum Mandrel	Aluminum Rivet Plated Steel Mandrel	Stainless Rivet Plated Steel Mandrel	Stainless Rivet Stainless Mandrel	Copper Rivet Plated Steel Mandrel	Hole Size # Drill No.	RL=Rivet Body Length RD=Rivet Body Diam. HW=Rivet Head Width HT=Rivet Head Thickness	Grip Range
3/32"				AA32D					.096-1.00		
3/32"			SS34D	AA34D					Drill #41	.212 .094 .118 .024	.020-.125 .126-.250
1/8"	SS41DJ		SS41D	AA41D	AS41D		SS/SS41D			.170 .125 .250 .032	.020-.062
1/8"	SS42DJ	AS42DJ	SS42D	AA42D	AS42D	SS/S42D	SS/SS42D	CS42D		.232 .125 .250 .032	.063-.125
1/8"	SS43DJ	AS43DJ	SS43D	AA43D	AS43D		SS/SS43D			.294 .125 .250 .032	.126-.187
1/8"	SS44DJ	AS44DJ	SS44D	AA44D	AS44D	SS/S44D	SS/SS44D	CS44D		.357 .125 .250 .032	.188-.250
1/8"	SS45DJ		SS45D	AA45D	AS45D					.419 .125 .250 .032	.251-.312
1/8"	SS46DJ		SS46D	AA46D	AS46D		SS/SS46D			.481 .125 .250 .032	.313-.375
1/8"	SS48DJ		SS48D	AA48D	AS48D		SS/SS48D			.606 .125 .250 .032	.376-.500
1/8"			SS44LF	AA44LF	AS44LF				.128-.132	.357 .125 .375 .032	.188-.250
1/8"			*** SS42DW	AA42DW	AS42DW				Drill #30	.232 .125 .250 .032	.063-.125
1/8"			SS43DW	AA43DW	AS43DW					.294 .125 .250 .032	.126-.187
1/8"			SS44DW	AA44DW	AS44DW					.357 .125 .250 .032	.188-.250
5/32"	SS52DJ		SS52D	AA52D			SS/SS52D			.254 .156 .312 .039	.020-.125
5/32"			SS53D	AA53D						.316 .156 .312 .039	.126-.187
5/32"	SS54DJ		SS54D	AA54D	AS54D	SS/S54D	SS/SS54D		.160-.164	.379 .156 .312 .039	.188-.250
5/32"	SS56DJ		SS56D	AA56D			SS/SS56D		Drill #20	.504 .156 .312 .039	.251-.375
5/32"	SS58DJ		SS58D	AA58D						.629 .156 .312 .039	.376-.500
3/16"	SS62DJ		SS62D	AA62D	AS62D		SS/SS62D			.277 .187 .375 .047	.020-.125
3/16"	SS64DJ	AS64DJ	SS64D	AA64D	AS64D		SS/SS64D			.402 .187 .375 .047	.126-.250
3/16"	SS66DJ	AS66DJ	SS66D	AA66D	AS66D		SS/SS66D			.527 .187 .375 .047	.251-.375
3/16"	SS68DJ	AS68DJ	SS68D	AA68D	AS68D		SS/SS68D			.652 .187 .375 .047	.376-.500
3/16"			SS610D	AA610D	AS610D				.192-.196	.777 .187 .375 .047	.501-.625
3/16"			SS612D	AA612D					Drill #11	.902 .187 .375 .047	.626-.750
3/16"			SS64LF	AA64LF	AS64LF					.402 .187 .375 .047	.126-.250
3/16"	SS66LFJ		SS66LF	AA66LF	AS66LF					.527 .187 .625 .047	.251-.375
3/16"	SS68LFJ		SS68LF	AA68LF	AS68LF					.652 .187 .625 .047	.376-.500
3/16"			SS610LF	AA610LF	AS610LF					.800 .187 .625 .047	.501-.625
3/16"			SS612LF	AA612LF	AS612LF					.925 .187 .625 .047	.626-.750
3/16"			SS616LF	AA616LF						1.175 .187 .625 .047	.751-1.00
3/16"				AA618LF	AS618LF					1.300 .187 .625 .047	1.00-1.25
1/4"	SS84DJ									.447 .250 .500 .069	.125-.250
1/4"	SS86DJ	AS86DJ								.572 .250 .500 .069	.251-.375
1/4"	SS88DJ	AS88DJ							.257-.261	.697 .250 .500 .069	.376-.500
1/4"	SS810DJ								Drill #F	.822 .250 .500 .069	.501-.625
1/4"		AS812DJ								.947 .250 .500 .069	.626-.750

Painted Rivets ***

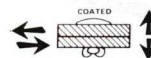
DW=White

OTHER PAINTED RIVETS (one size) IN STOCK

AA42DW	=	White
AA42DBL	=	Black
AA42DAI	=	Antique Ivory
AA42DRB	=	Royal Brown
AA42DAG	=	Antique Gold
AA42DSG	=	Spanish Green
AA42DMB	=	Musket Bronze
AA42DCC	=	Classic Cream
AA42DLGY	=	Light Gray
AA42DDGY	=	Dark Gray

MORE VARIETIES OF PAINTED RIVETS AND SPECIALLY FINISHED RIVETS AVAILABLE UPON REQUEST.

ULTIMATE SHEAR & TENSILE STRENGTHS

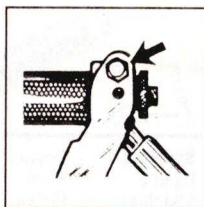


Rivet Mandrel	Rivet Dia.	Minimum Lbs. Shear	Tensile
Steel Rivet	3/32"	130	170
Steel Rivet	1/8"	260	310
Steel Mandrel	5/32"	370	470
Steel Mandrel	3/16"	540	680
Steel Mandrel	1/4"	1000	1240
Aluminum Rivet	3/32"	70	80
Aluminum Rivet	1/8"	120	150
Aluminum Mandrel	5/32"	190	230
Aluminum Mandrel	3/16"	260	320
Aluminum Rivet	3/32"	125	175
Aluminum Rivet	1/8"	120	150
Steel Rivet	5/32"	190	230
Steel Mandrel	3/16"	260	320
Steel Mandrel	1/4"	460	560
Stainless Rivet	1/8"	420	530
Stainless Rivet	5/32"	650	820
Stainless Mandrel	3/16"	950	1200
Copper Rivet Steel Mandrel	1/8"	350	450

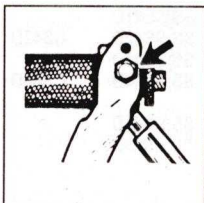


RIVETING TOOLS

2-in-1 Hand Riveter



LONG STROKE
Bolt in upper hole for easy pulling rivets in one pull



SHORT "RATCHET ACTION" POWER STROKE
Bolt in lower hole for hard pulling rivets in several easy pulls

2-in-1

One hand operation with normal squeezing action provides enough pulling power to set all popular size rivets (see spec. columns below). 2-in-1 adjustment features a single long stroke for most hand riveting applications and a short "ratchet action" power stroke for setting larger diameter rivets. Outside jaw-grip adjustment wheel opens and closes jaws with fingertip ease to fit any size mandrel and to obtain maximum stroke efficiency. Professional slim nose allows 2-in-1 to go where other hand riveters cannot. Ideal for reaching into corners and recessed areas. Three nosepieces 1/8, 5/32 and 3/16" included with tool. Nosepieces are stored in handle. Heavy duty all steel construction insures long life and minimum wear. Polished finish, nickel-chrome plated. Red vinyl cushion grip and hand stop.

Catalog Number	Capacity 3/32" rivet diameter thru-	Net Weight	Length
2-in-1	3/16" w/steel mandrel 5/32" w/stainless steel mandrel	1 lb. 4 oz.	8"

2-in-1 KIT

Catalog Number	Description
2-in-1K	Kit including 2-in-1, carrying case and rivet samples.



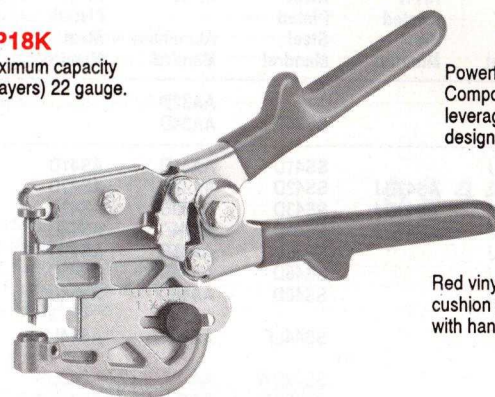
ACCESSORIES & PARTS

Catalog Number	Description
ER41	Jaws for hand & electric riveters
ER44	3/16" nosepiece for hand & electric riveters
ER45	1/8" nosepiece for hand & electric riveters
ER46	5/32" nosepiece for hand & electric riveters
HR3-7	Adjustment rod assembly for hand riveter
1667	7 compartment kit box

1/8" - 3/16" Hole Punch ADJUSTS FROM 1/4" TO 1-1/8" DEPTHS

HP18K

Maximum capacity
(3 layers) 22 gauge.



Powerful
Compound
leverage
design.

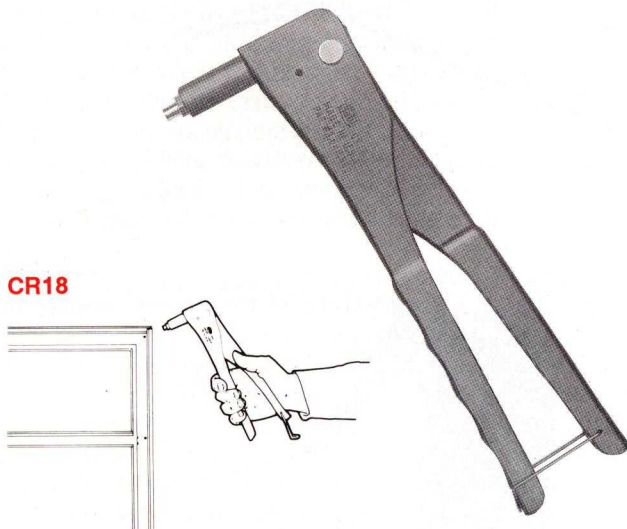
Red vinyl
cushion grips
with handle stops.

Easy interchangeable
1/8" and 3/16" punch and die.

Does the work of more expensive bulkier punches faster and easier. Work overhead to pre-punch rivet holes in suspended ceiling grids or use in any edge application for making holes in window extrusions, metal ductwork or sheet stock. Compound leverage increases one hand mechanical advantage 8 to 1. Spring return handles allow quick set-up for repetitive applications. Stop gauge permits adjustments from 1/4" to 1-1/8" increments. Punch and die are easily replaceable or changed from standard 1/8" hole size to 3/16". Punch and dies are constructed from high quality tool steel used in commercial high production punch press dies. Body of tool consists of lightweight, aluminum die cast 'C' frame and rust resistant nickel plated steel handles and parts. Tool also features non-slip cushion handle grips and is compact enough to fit in any tool box or pouch.

Catalog Number	Description	Net Weight
HP18K	Hole Punch Kit	1 lb.
HPD18	1/8" Replacement Punch & Die Kit	
HPD316	3/16" Replacement Punch & Die Kit	

Economy Hand Riveter



CR18

Lightweight, compact size and slim nose projection allows this riveter to go wherever the work is. 1/8" aluminum or steel rivet capacity is ideally suited for blind riveting applications in aluminum windows, gutter and downspout. Spring return handles and comfortable contour grip make operation fast and easy. Just open handles and insert rivet into tool until flange touches nosepiece. Squeeze handles slightly to allow jaws to grip rivet mandrel. Insert rivet into pre-drilled work to be fastened and squeeze handles until mandrel snaps. Release grip on handles and mandrel will drop out front end of tool when tilted.

Rugged steel stamping with black paint finish. Secure handle latch makes this tool easy to fit in pouch or pocket.

Catalog Number	Description	Length	Net Weight
CR18	1/8" Steel Cap. Riveter	8"	12.5 oz.

REPLACEMENT JAWS

CR1	Replacement jaws	-	-
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Air-Hydraulic Riveter



PR88



PR58



PR78A

These are rugged tools, yet lightweight and well balanced with virtually zero recoil. Streamlined design for long life and easy maintenance. High tensile aluminum alloy body permits easy handling. High speed production riveting is achieved with minimum effort and fastenings are always uniformly strong regardless of operator's strength or skill. Malco air-hydraulic riveters also feature comfortable handles, mandrel deflectors and tool balance rings.

Catalog Number	Capacity 3/32" rivet dia. thru-	Max. PSI	Net Weight	Length
PR58	1/8" w/stainless steel mandrel	65-75	2.5 lbs.	9-1/2"
PR78A	3/16" w/stainless steel mandrel	78-85	3.5 lbs.	10"
PR88	1/4" w/stainless steel mandrel	85-92	4.9 lbs.	11-1/2"



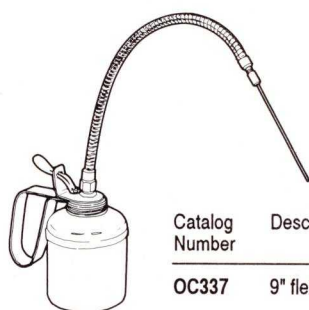
OIL CANS

Oil Cans



HEAVY DUTY OILERS

Designed to get into those hard to reach places. Strong, long lasting steel bodies feature durable Epoxycote finish. Rolled edge handles provide comfortable grip. Heavy gauge steel triggers are placed conveniently for easy thumb operation. 18" long flexible spout on model OC337 has an Epoxycote finish and features a hollow wire tip. 9" rigid spout on model OC340 is zinc plated and has an angled taper tip. Both models provide controlled feed from a few drops to a steady stream.



Catalog Number	Description	Capacity	Net Weight
OC337	9" flex spout	1 pt.	12 oz.



Catalog Number	Description	Capacity	Net Weight
OC340	9" rigid, 30° bend	1 pt.	10 oz.

Pistol Oilers

Ideal for use in confined areas. Strong, long lasting steel bodies feature durable Epoxycote finish. Expanded flat bases prevent tipping and help prevent leaks. 6" rigid spout on model OC515 is zinc plated and comes with a detachable tip. 6-1/2" flexible spout on model OC516 features an Epoxycote finish. Both spouts provide controlled feed and are angled to receive oil even when oil content is low.



Catalog Number	Description	Cap.	Net Weight
OC515	6" rigid spout	6 oz.	7 oz.



Catalog Number	Description	Capacity	Net Weight
OC516	6-1/2" flex spout	6 oz.	7 oz.

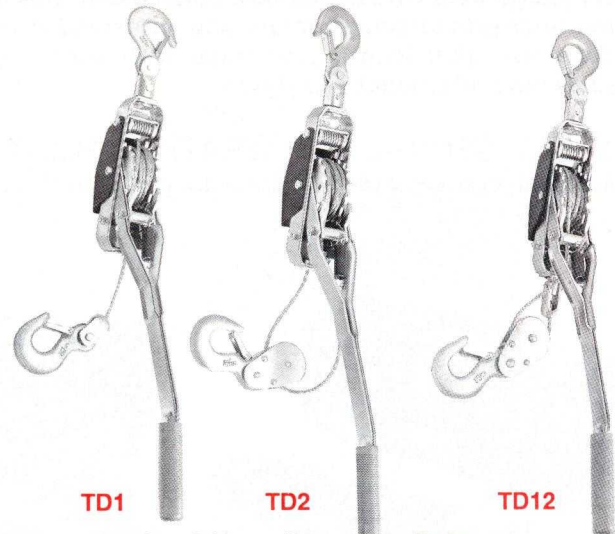
Twin Drive Hoist-Pullers

Ratchet action of Hoist-Puller makes easy work of jobs requiring heavy duty pulling, lifting, stretching, etc. Available in 3 styles for 1 ton, 2 ton and combination 1 and 2 ton capacities. All Malco Hoist-Pullers feature double drive ratchet wheels to eliminate twisting, binding and distortion problems common to single drive pullers. A swivel hook inhibits cable damage due to twisting under tension. An exclusive design release control allows tension to be released a notch-at-a-time.

Simplicity of construction increases service life and reduces maintenance time. Compact 8-1/2" long by 2-1/4" wide body frame houses all the major working parts (30% fewer parts than any other competing models on the market). Durable frame is made of 11 ga. x 1-1/4" steel. (Independent laboratory testing has proved this frame, combined with the one piece 16 ga. steel cover and cable guard, to provide one of the strongest foundations possible). Handle will not bend from sudden jerks - but will bend if overloaded (an important safety guideline). Pivot points, bolts and rivets are heat-treated aircraft machine steel. Springs are stainless steel for smooth performance under load. All parts are zinc plated. Grip is non-slip ribbed design.

Malco Twin Drive Hoist-Pullers have applications for virtually every industry including: construction, farming, utilities, plumbing, heating, ventilating, air conditioning, plant maintenance and automotive.

Capacities up to 4,000 lbs. - for pulling, lifting, stretching, rigging, securing, bracing, tying down, supporting, tightening, aligning, positioning, installing, guying.



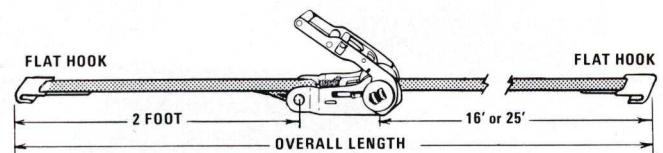
Catalog Number	Capacity	Cable Length	Net Weight	Replacement Cable Cat. #
TD1	1 ton	12'	7 lb. 14 oz.	TDR
TD2	2 ton	6'	8 lb. 6 oz.	TDR
TD12*	1-2 ton	12-6'	8 lb. 12 oz.	TDR

*Quickly converts from 1 ton - 12' cable length to 2 ton - 6' cable length.

DUAL STRAP TYPE Ratchet Binders

Versatile load binder with ratchet action buckle saves time and reduces labor in securing loads. Buckle is heavy duty all steel construction. 1-3/4" nylon webbing has minimum breaking strength of 5,000 lbs. Webbing is also pliable so that it will not mar bound cargo. Ideal for delivery vehicles and baggage compartments. Secures virtually all types of loose cargo including lumber, insulation sheets, metal and synthetic pipe and tubing, compressed gas cylinders, small machinery and equipment, carpet bolts and furniture. Economical and completely reusable. Available with hook end dual straps.

Designed specifically for binding loads on trucks. Two piece unit has heavy metal hook at end of each strap.



RB218

Catalog Number	O/A Length	Description	Capacity
RB218	18'	Binder w/2' and 16' straps	5,000 lbs.
RB227	27'	Binder w/2' and 25' straps	

Replacement Straps with heavy duty flat hooks

RB218R	16'	Strap w/hook for RB218
RB227R	25'	Strap w/hook for RB227
RB202R	2'	Strap w/hook



TOOL BOXES AND ACCESSORIES

Tool Boxes

Available in a wide variety of styles and sizes. Boxes are heavy gauge steel with baked-on enamel finish. Strong comfortable grip carrying handles will withstand years of daily use. Full length tote trays with easy grip handles offer additional portability.

STRONG, SECURE AND WEATHER TIGHT

Double rolled edges and wide rolled front edge provide maximum

wall strength and rigidity. Smooth edges reduce sagging. One piece tray supports welded to front, side and rear help keep boxes true. Positive catch draw bolts are heavy weight and heavy plated. All Malco tool boxes have a padlock eye or a padlock hasp and staple for locking. Hasp and staples are welded inside for added strength and security. Covers are attached with a full length piano hinge with non-removable pin. Watershed type cover protects hinge and box contents from elements. Cap end construction reinforces corners and bottom bracing and makes durable tool boxes even more weather tight.



1601



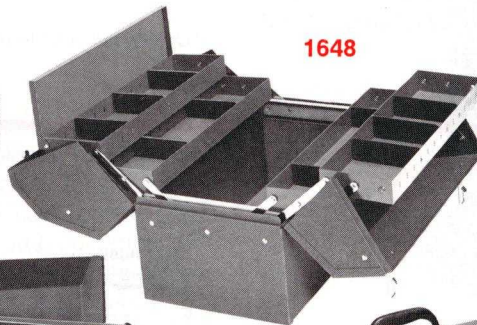
1602



1603



1604



1648



1622



1612



1621

Catalog Number	Full Length lift out tote tray	Locking Mechanism	No. of draw bolts	Special Features	L	W	H	Net Wt. Lbs.
1601	YES	Padlock Eye	1	One compartment tote tray, single oversize positive catch draw bolt with padlock eye.	19"	7"	7½"	7½
1602	YES	Padlock Hasp	2	Popular size. 2 compartment socket set divider in tote tray.	18"	8"	9"	9½
1603	YES	Padlock Hasp	2	Popular size. Three compartment tote tray.	20"	8½"	9½"	11
1604	YES	Padlock Hasp	2	Big and rugged. Extra heavy duty. Tote tray includes 3 compartments plus socket set dividers. Heavy duty nickel plated side handles have positive stops which prevent them from raising above a 90° angle. This generous hand clearance plus an extra large grip make this chest even easier to move.	24"	9½"	9½"	18½
1612	YES	Padlock Eye	1	Hip roof design. Tote tray 2-1/8" deep with socket set divider	19-3/4"	7"	8"	8-3/4
1621	YES	Padlock Eye	1	Hip roof design. Tote tray. Full length piano hinge.	21-1/16"	8-9/16"	8¼"	10
1622	YES	Padlock Hasp	2	Portable 2 drawer chest. Full suspension drawers. Lock bar automatically secures drawers when cover is closed. Two compartment socket divider in tray.	20"	8½"	9½"	17½
1648	NO	Padlock Hasp	2	Cantilever box with double cover, hip roof design. Huge capacity. Extra long and high. Solid and smooth working trays move on plated rails.	18"	10"	13¼"	18-3/4

Tote Trays



These heavy duty, crush proof tote trays are great for carrying hand tools and fasteners to the job site. Rust proof polypropylene body material is long wearing, lightweight and portable. Three roomy compartments to accommodate all the tools you need. Comfortable handle grip rolls to outside - will not bite into palm of hand. Model 1660, tote box only.

Tote tray 1662 features two lift out trays of tough thermoplastic. One tray with six compartments is specially designed for storing fasteners and other small accessories. Also comes with a lid.

Catalog Number	Dimensions (L-W-H)	Net Weight
1660	15" x 10" x 4-1/2"	1 lb. 12 oz.
1662	15" x 10" x 4-1/2"	3 lbs.

Utility Boxes



1664 Six compartment lift out tray is tough thermoplastic. Self locking double latch, drop handle, blue shell.

1666 Six compartment with snap latch lid and molded hanging hole. Dark blue color.

1667 Seven compartments. Crush proof polypropylene with living hinge and secure snap latch lid. Dark blue color.

Catalog Number	Dimensions (L-W-H)	Net Weight
1664	11" x 5-1/4" x 4"	1 lb.
1666	10-1/4" x 4-5/8" x 1-3/8"	8 oz.
1667	10-5/8" x 6-1/2" x 1-3/4"	12 oz.

RUST PROOF Plastic Tool Boxes



Large capacity tool boxes with ample tote trays hold more tools! Rugged polypropylene case withstands bitter cold temperatures to -100°F. Rust proof polypropylene also resists grease and most solvents. Positive closure latches and stress free hinges are designed for heavy loads. Professional look, dark grey color. Recessed handles make these boxes easily stackable.

Catalog Number	Description (L-W-H)	Net Weight
1671	16" x 8" x 7" nom. w/tray	3 lbs. 4 oz.
1672	19" x 9-1/2" x 8-1/2" nom. w/tray	5 lbs. 8 oz.



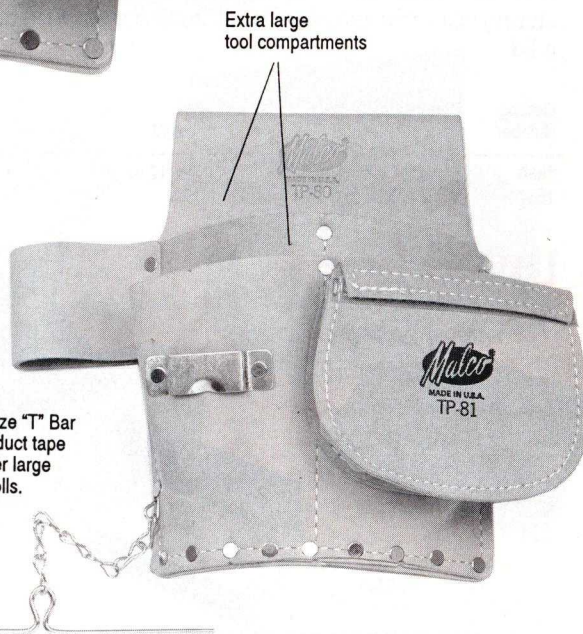
POUCHES, APRONS AND ACCESSORIES

Tool Pouches FOR ALL THE TRADES



TP80
Supplied standard
with Fastener Pouch.
(Belt not included)

The TP80 Pouch pictured here, features 2 large inside pockets with center divider and wall slots for 3 drivers. Plus, 2 generous front pockets easily accommodate aviation snips or snap lock size hand tools. An auxiliary fastener pouch holds up to 500 rivets (1/8", 3/16"), screws (6x3/8, 7x1/2) or other small fasteners. Fastener pouch has a Velcro closure, and clips securely to belt or pouch clip. The versatile TP80 tradesman's pouch also features: outside hammer loop and open end driver slot; 2 riveted clips for tape measure and fastener pouch, swinging chain "T" bar for large tape rolls, and wide tunnel belt loop. Made of 7-8 oz. leather. Double stitched and rivet reinforced throughout.



Extra large
tool compartments

Oversize "T" Bar
holds duct tape
or other large
tape rolls.

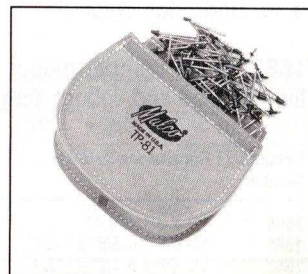
Catalog Number	Description	Dimension
TP80	Tradesman's Pouch w/TP81 pouch included	8 1/2" x 10"

TP81 FASTENER POUCH ONLY

4-5 oz., chrome tanned, suede split leather with Velcro closure. Clips to belt or tape measure clip.

TP81	Fastener Pouch only	4 1/2" x 5 1/2"
------	---------------------	-----------------

Handy Fastener Pouch clips on either side of TP80. Holds up to 500 rivets, screws or other small fasteners. FASTENER POUCH ALSO AVAILABLE SEPARATELY!
Order No. TP81



POUCHES, APRONS AND ACCESSORIES



TP1



TP3



TP4



TP5



TP8



TP10

Catalog Number
Dimension

Description

TP1 9" x 10"	BOX TYPE TOOL POUCH: Strap leather. 4 large gusseted utility pockets. 2 molded front plier pockets, 2 driver pockets, hammer loop and small tool snap.
TP3 8½" x 10"	NINE COMPARTMENT ELECTRICIAN'S POUCH: Heavy chrome tanned, brushed leather, 2 large flared inside pockets with center divider, back wall slots for 3 drivers, 3 flared deep front pockets, 2 outside open end driver slots, swing chain "T" bar for friction tape and riveted harness snap for small tool or knife. Holster for steel tape (12' x 3/4" capacity), outside hammer loop and wide tunnel belt loop. Our most popular pouch!
TP4 9½" x 11"	LINEMAN'S FOUR TIER-SEVEN POCKET POUCH: Large deep flared inside pocket, medium pre-molded center pocket, 2 pre-molded front pockets, 2 long outside driver pockets, large steel rule holster (16' x 3/4" capacity), anchored tape sling and quick release tool or knife snap. Rigid back accepts wide belt.
TP5 9-3/4" x 10¼"	CONSTRUCTION WORKER'S TWO BAG APRON: Durable 5-6 oz. golden tan, supple ball glove leather. 2 large nail pockets, 2 outside finishing nail pockets, 2 small tool pockets, 4 slots for punch or pencil, knife or plier holster and holster for steel tape (25' x 1" capacity). Leather hammer loop on each side. Double lock stitched and rivet reinforced. U.S. Army spec. 2¼" web belt. Our No. 2 best seller.
TP8 7½" x 9"	ELECTRICIAN'S-SERVICEMAN'S UTILITY POUCH: 3 outside small tool pockets, 1 large 6 x 6½" permanent pouch inside pocket, 2 open end driver slots, swing "T" friction tape chain and small tool snap. Hammer loop and wide tunnel belt loop.
TP10 9" x 9½"	SIX POCKET ALL PURPOSE POUCH: Saddle leather. Large inside pocket, 2 molded outside plier pockets, 2 deep open end driver side pockets, steel tape holster (12' x 1/2" capacity). "T" tape chain and quick release tool snap.



POUCHES, APRONS AND ACCESSORIES



TP11



TP18



TP20



TP21



TP25

TP40



TP26



TP33

Catalog Number
Dimension

Description

TP11 8-3/4" x 9-3/4" each bag	TWO BAG SUEDE APRON: Brown suede leather. 2 large nail pockets, 2 outside finishing nail pockets, 2 small tool pockets, 4 slots for punch or pencil and leather strap for clip-on steel tape rule. Leather hammer loop on each side. Rivet reinforced at stress points. Adjustable web belt.
TP18 3-1/4" x 5-1/2"	UTILITY KNIFE SHEATH: Fiber lined, closed end sheath fits Malco 2PK, 3PK and 4PK knives and all other major brand utility knives. Heavy-duty, top grain saddle leather. 5-1/2" x 1-1/2" fiber lined, tunnel pocket with closed bottom to resist cutting. Rivet reinforced pocket for extra strength. Extra wide 2-3/4" belt slots.
TP20 3-1/2" x 8"	KNIFE OR PLIER HOLSTER: Rigid strap leather. Semi-molded with open end. Ample belt slots.
TP21 2-1/2" x 8"	MOLDED PLIER HOLSTER: Top grain saddle leather. Tunnel loop fits web belt.
TP25 4-1/2" x 8"	STEEL LOOP HAMMER HOLDER: 2 x 2" steel wire loop is secured between leather laminations. Heavyweight strap leather. Wide belt slots.
TP26 3-3/4" x 6-1/2"	SWINGING HAMMER LOOP: Steel wire loop is mounted on pivot and riveted to 8-9 oz. saddle leather base. Pivot allows hammer to ride on user's hip and keeps hammer out of way when working.
TP33 3-1/2" x 4-1/2"	STEEL TAPE RULE HOLDER: 25' x 1" capacity. Saddle leather pre-formed pocket. Belt slots fit wide web belt.
TP40 9-1/2" x 13" each bag	TWO POUCH ROOFER'S WAIST APRON: Tough-wearing apron is designed specifically with a roofer's needs in mind. Belt high pockets will not drag when kneeling. Made of heavy duty brown suede split leather. 2 extra large, flared nail pockets, one leather knife sheath with tough fiber lining to resist cutting, a leather tape rule holder and a cradle-design steel hammer holder. Double stitched nail pockets with extra rivet reinforcement throughout. Adjustable 2-1/4" wide polypropylene web belt.

POUCHES, APRONS AND ACCESSORIES



TP50



TP62



TP63



TP201



TP67



TP301



TP401



TP70

Catalog Number Dimension

Description

TP50 9½" x 13¼"	ROOFER'S NAIL BAG: Ball glove leather. Deep 7" main pocket. Smaller top pocket for carrying small nail size, knife, etc. Wide tunnel loop carries bag high on belt to prevent roof drag.
TP62 6¼" x 12"	SCREW GUN HOLSTER: Heavy top grain saddle leather. Bottom extends to protect leg. Wide tunnel belt loop.
TP63 20" x 6" x 15"	CANVAS TOOL BAG WITH SHOULDER STRAP: Roomy 8-10 oz. duct canvas bag is built around a light strong 12 gauge steel frame. Large 9" x 11" inside tool pocket. Leather handles and straps with buckle closure. Sturdy masonite bottom features metal studs. Vinyl reinforcement covers entire bottom and extends three inches up each side.
TP67 9" x 11½"	5-POCKET NAIL BAG AND TOOL POUCH: Heavy 5½ oz. ball glove leather. Large bellows flared main pocket, ample outside pocket for fasteners, 2 small tool pocket and 4 punch size pockets. Double stitched and rivet reinforced. Wide tunnel loop fits web belt. Leather Hammer loops on right and left side.
TP70 9" x 11" ea bag	DELUXE TWO BAG APRON: Heavy 5½ oz. dark tan, ball glove leather bags with tooled saddle leather belt, tape rule holder (25' x 1" capacity), tool snap and square holder. Combination nail and tool pouches each feature large bellows flared main pocket, ample outside pocket, small tool pocket, two punch size pockets, leather hammer loop. Bags and accessories are double stitched and rivet reinforced throughout.
TP201 14" x 4"	SNIP HOLSTER: Fits Malco M12 and M14 Snips (see page 22). Saddle leather. Double stitched and rivet reinforced. Wide tunnel loop.
TP301 10" x 2-3/4"	KNIFE SHEATH: Fits Malco DK1 duct knife (see page 17). Heavy top grain saddle leather. Double stitched and rivet reinforced. Wide tunnel loop fits web belt.
TP401 8" x 4"	ROOFER'S KNIFE HOLSTER: For Malco RK2 roofer's knife (see page 39). Provides easy retrieval. Rides safely at user's side. Heavy top grain saddle leather. Double stitched and rivet reinforced. Wide tunnel loop fits web belt.



POUCHES, APRONS AND ACCESSORIES



TPA1



TPA3



TPA4



TPA5



TPB1



TPB3



TPB4

Catalog Number
Dimensions

Description

TPA1 10 1/4" X 22-3/4"	TEN POCKET WAIST APRON: Double tier pockets feature 2 large flared nail pockets, 1 small nail center pocket, 4 tool pockets and 3 nail-center punch pockets. Duck canvas is reinforced with heavy duty stitching. Nylon hammer loops on right and left sides.
TPA3 8 1/2" X 21"	LARGE POCKET WAIST APRON: Two large 7 x 8" flared nail pockets offer large capacity and easy hand access. Nylon hammer loop will not bind against hammer handle. Apron also features two small side pockets for tools. Made of 9-10 oz. duck canvas. Completely bound.
TPA4 37" x 26"	BLUE DENIM SHOP APRON: Below knee length apron has 2 large pockets and slot at waist, swing pocket and pencil pocket at chest level. Criss-cross over the shoulder straps with grommets at waist. Double stitched throughout.
TPA5 18 1/2" x 22 1/4"	SIX POCKET BIB APRON: 10 oz. duck canvas. Large bib pocket and pencil sheath, 2 large nail pockets at waist and 2 small tool side pockets. Reinforced with heavy duty stitching. Nylon hammer loop.
TPB1 2 1/4" x 46"	WEB BELT: 2 1/4" wide heavy webbing. U.S. Army spec. hardware. Adjustable up to 46" waist.
TPB3 2" x 46"	DELUXE LEATHER BELT: Distinctive tooled saddle leather belt is dark tanned. Double tongue roller buckle. One size fits all - cut off to desired length from 30" to 46".
TPB4 1-3/4" x 46"	HEAVY DUTY 1-3/4" WIDE LEATHER BELT: Distinctive tooled 9-10 oz. saddle leather. Heavy roller buckle and leather keeper. One size fits all. Cut off to desired size from 30" to 46".

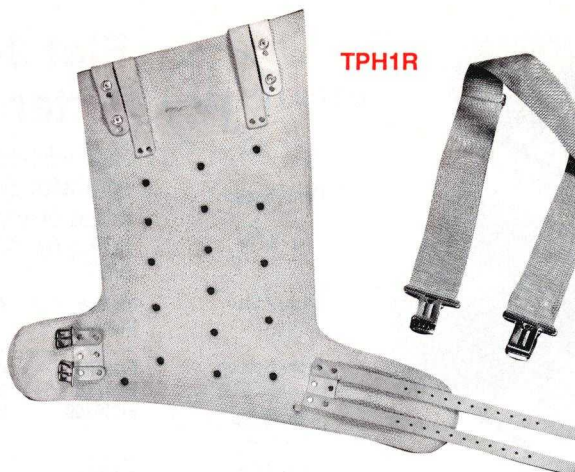
POUCHES, APRONS AND ACCESSORIES



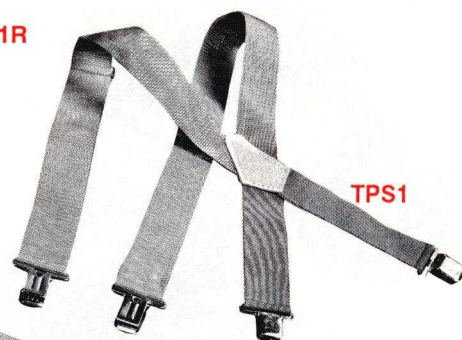
Man-Made Leather



- ✓ 20-40% below average industry prices for natural leather.
- ✓ Leather-like strength and durability.
- ✓ This pouch actually outlasts leather!

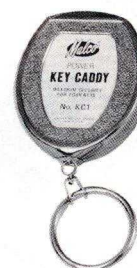


TPH1R



TPS1

TPKP1

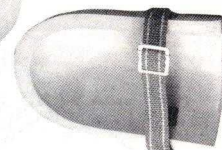
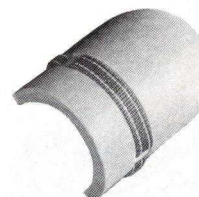


KC1

TPKP4



TPKP8



Catalog Number Dimensions	Description
TP3M 8½" x 10"	NINE COMPARTMENT ELECTRICIAN'S POUCH: Made from Tanera - an outstanding functional man-made material, long wearing, unaffected by moisture, sweat, mildew, oils and most chemicals. High performance polymer finish. Attractive and long wearing. Features include: 2 large flared inside pockets, with center divider, back wall slots for three drivers, 3 flared deep front pockets, 2 outside open end driver slots, swing chain "T" bar for friction tape, and riveted harness snap for small tool or knife. Holster for steel tape (12' x 3/4" capacity), outside hammer loop and wide tunnel belt loop.
TPH1L 3 lbs	ROOFER'S HIP PAD: Made in one piece, die molded natural cellulose rubber ruflex surface for slip-resistant gripping. Includes leather leg straps that prevent up-slippage and crotch binding. For left handers.
TPH1R 3 lbs	ROOFER'S HIP PAD: Same description as TPH1L except for right handers.
TPS1 7.5 oz.	WORK SUSPENDERS: Extra wide suspenders designed to hold nail bags and aprons. Suspenders lighten the load that normally rests on hips and lower back. Heavy duty 2" wide, fully adjustable polypropylene front straps for strength. Elastic nylon webbing rear straps for extra cushion where it counts. Nickel plated, heavy-duty hardware keeps tight grip. One size fits all.
TPKP1 7" x 10"	SOLE LEATHER KNEE PADS: Top grain sole leather. 1/2" sponge rubber center padding with 1/4" felt padding overall. Attachment straps have adjustable swivel D-ring. Polypropylene reinforced at front of knee. Available only in pairs.
TPKP4 6" x 8"	PROFESSIONAL KNEE PADS: Two adjustable, 3/4" wide, polypropylene straps per pad for a secure, comfortable fit. Thick water repellent cellular rubber for maximum wearing comfort.
TPKP8 5½" x 7"	ECONOMY KNEE PADS: Foam rubber pads for maximum wearing comfort. 3/4" adjustable polypropylene strap per pad for secure, comfortable fit.
KC1 24" chain & ring	KEY CADDY: Provides maximum security for your keys. Heavy duty die-cast case is triple chrome plated for rugged use. Power spring mechanism returns 24" rust proof stainless steel chain and key ring automatically to case when released—from any angle. Belt clip feature guarantees extra safety to your keys.



ELECTRIC CORDS AND LITES

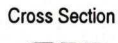
Flat 3-wire Extension Cord

High visibility orange thermoplastic PVC jacket. Always use a cord with an equal or greater electrical rating than nameplate rating of appliance being plugged into cord. Multiply ampere rating by 125 to determine equivalent watts.

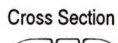
Cross Section



Actual Size



Actual Size



Cross Section



Actual Size



Catalog Number Wire-# & Ga. Feet Amps-Volts

EC3F25	16/3	25	13A-125V
EC3F50	16/3	50	13A-125V
EC3F100	16/3	100	10A-125V

EC5F25	14/3	25	15A-125V
EC5F50	14/3	50	15A-125V
EC5F100	14/3	100	13A-125V

EC9F25	12/3	25	15A-125V
EC9F50	12/3	50	15A-125V
EC9F100	12/3	100	15A-125V



LISTED

Outdoor Extension Cord

High visibility orange thermoplastic PVC jacket. Round cord construction. Use with portable tools, small motors, appliances and similar electric equipment.

Cross Section



Actual Size

Cross Section



Actual Size

Cross Section



Actual Size

Catalog Number Wire-# & Ga. Insulation Type Feet Amps-Volts

EC3025	16/3 SJTW-A	25	13A-125V
EC3050	16/3 SJTW-A	50	13A-125V
EC30100	16/3 SJTW-A	100	10A-125V

MEETS OSHA REQUIREMENTS

EC5025	14/3 SJTW-A	25	15A-125V
EC5050	14/3 SJTW-A	50	15A-125V
EC50100	14/3 SJTW-A	100	13A-125V

MEETS OSHA REQUIREMENTS

EC9025	12/3 SJTW-A	25	15A-125V
EC9050	12/3 SJTW-A	50	15A-125V
EC90100	12/3 SJTW-A	100	15A-125V

MEETS OSHA REQUIREMENTS

4-Way Power Block

U.L. listed multiple outlet extension cord is made to withstand extra hard on-the-job use. Makes multiple outlets available where they are needed. All outlets are grounded. 4-way block is mounted on and wires are permanently connected. The thermoplastic PVC jacket is a high visibility orange color. This cord is rated for use in damp places. Total capacity of the 4 outlets is limited to the indicated cable rating.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EB906	12/3 SJTW-A	6	15A-125V
EB9025	12/3 SJTW-A	25	15A-125V
EB9050	12/3 SJTW-A	50	15A-125V
EB90100	12/3 SJTW-A	100	15A-125V

MEETS OSHA REQUIREMENTS



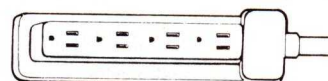
LISTED



Cross Section



Actual Size



3-Way Power Spread

High visibility round cord with thermoplastic PVC jacket. Grounded three way power spread features unbreakable molded connectors serving as the power source for three different jobs at the same time. 3 outlets - the total capacity is limited to the indicated cable rating. Rated for hard on-the-job use.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EP5025	14/3 SJTW-A	25	15A-125V
EP5050	14/3 SJTW-A	50	15A-125V
EP50100	14/3 SJTW-A	100	13A-125V

MEETS OSHA REQUIREMENTS



LISTED



Cross Section



Actual Size

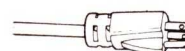
Cross Section



Actual Size

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EP902	12/3 SJEOW-A	2	15A-125V
EP9025	12/3 SJEOW-A	25	15A-125V
EP9050	12/3 SJEOW-A	50	15A-125V
EP90100	12/3 SJEOW-A	100	15A-125V

MEETS OSHA REQUIREMENTS





ELECTRIC CORDS AND LITES

Malco All Weather Cords

FEATURING SUPER FLEXIBLE
TRP ELASTOMER JACKET

A new synthetic rubber substitute withstands extreme temperatures ranging from -58° to +212°F. It's lightweight too - weighs 50 to 60% less than PVC or ordinary rubber.



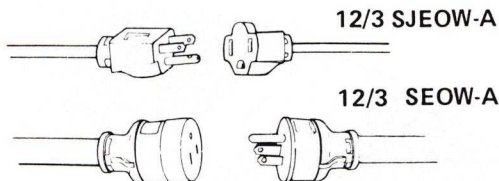
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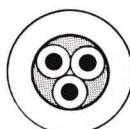
Cross Section



Actual Size



Cross Section



Actual Size

ALL WEATHER Outdoor Extension Cord

TPR elastomer jacket affords outstanding cord flexibility. Withstands extreme temperatures from -58°F to +212°F. Round cord is bright safety yellow. Used with engine heaters, snow blowers, electric motors, power tools and similar electric equipment.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EC8B25	12/3 SJEOW-A	25	15A-125V
EC8B50	12/3 SJEOW-A	50	15A-125V
EC8B100	12/3 SJEOW-A	100	15A-125V

EXTRA HEAVY DUTY

TPR elastomer jacket affords outstanding cord flexibility. Withstands extreme temperatures from -58°F to +212°F. Yellow color, round cord. Extra thick jacket is 40% of cord construction. Use with heavy tools, equipment and machinery subject to extra hard usage.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EC9B25	12/3 SEOW-A	25	15A-125V
EC9B50	12/3 SEOW-A	50	15A-125V
EC9B100	12/3 SEOW-A	100	15A-125V

MEETS OSHA REQUIREMENTS

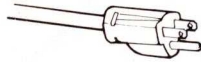
Extension Lites

GROUNDING STEEL GUARD

High visibility orange thermoplastic PVC cord jacket. Grounded swing-open steel guard. Handle has on-off, push-thru switch and one grounded side outlet. For lamps up to 75 watts.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EL3025	16/3 SJT	25	13A-125V
EL3050	16/3 SJT	50	13A-125V

MEETS OSHA REQUIREMENTS

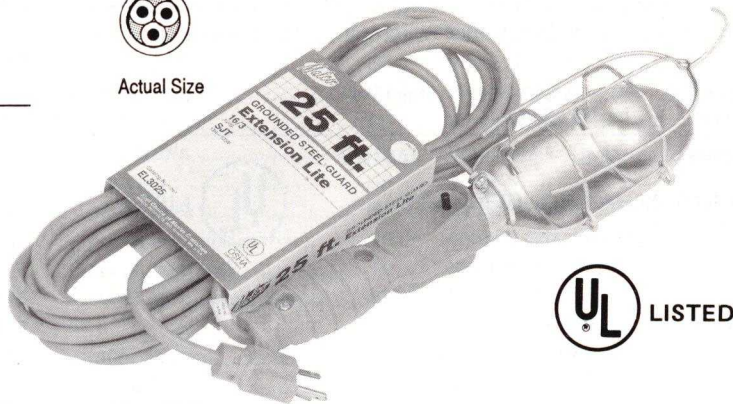


Cross Section



Actual Size

STEEL GUARD

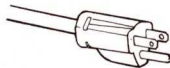


ALL WEATHER LITE with Grounded Steel Guard

TPR elastomer cord jacket stays flexible to -58°F. Cord is bright safety yellow. Grounded steel guard is swing-open type. Handle has on-off, push-thru switch and one side outlet. Encapsulating injection molding securely bonds all handle parts and cord to handle. For lamps up to 75 watts.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EL3B25	16/3 SJEO	25	13A-125V
EL3B50	16/3 SJEO	50	13A-125V

MEETS OSHA REQUIREMENTS



Cross Section



Actual Size

STEEL GUARD

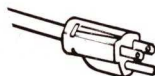


DELUXE INSULATED GUARD

High visibility orange thermoplastic PVC cord jacket. Insulated swing-open vinyl guard is non-transparent and has greater reflectivity than other insulated types. Handle has on-off, push-thru switch and one grounded side outlet. Encapsulating injection molding securely bonds all handle parts and cord to handle. For lamps up to 75 watts.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
EL3G25	16/3 SJT	25	13A-125V
EL3G50	16/3 SJT	50	13A-125V

MEETS OSHA REQUIREMENTS

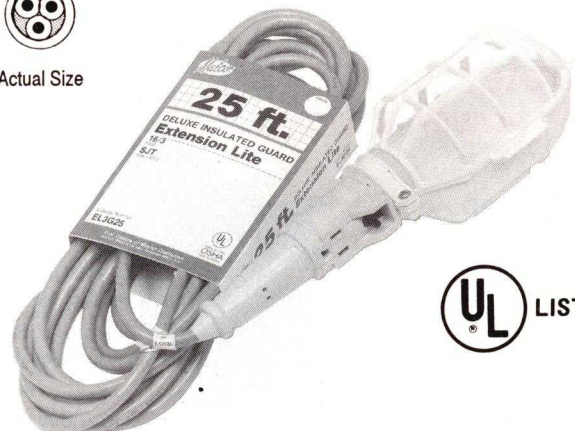


Cross Section



Actual Size

PLASTIC GUARD





ELECTRIC CORDS AND LITES

Clamp-on Reflector Lite

TPR elastomer cord jacket is flexible in cold. 8-1/2" aluminum reflector. On-off, push-thru switch at base. Revolves 360°. Spring clamp and double ball joint allows lite to be positioned and aimed in any direction. For lamps up to 75 watts.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
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EROR15	18/2 SJT	15	10A-125V
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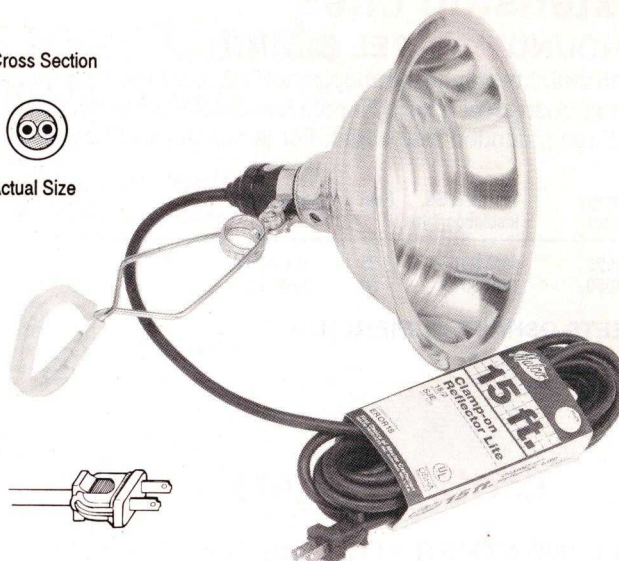
MEETS OSHA REQUIREMENTS



Cross Section



Actual Size



Coil Cord Extension Lite

Coil cord stretches from 4 feet to 20 feet with ease. Cord will not tangle or get underfoot. And it never needs rewinding when not in use. Right angle plug stays plugged when cord is extended. Cord jacket is made from TPR elastomer to withstand extreme temperatures from -58°F to +212°F. Cord jacket also resists deterioration from moisture, dampness and abrasion. Lamp guard is grounded steel swing-open type. Handle has on-off push-thru switch and one side outlet. For lamps up to 75 watts.

Catalog Number	Wire-# & Ga. Insulation Type	Feet	Amps-Volts
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EL3B20C	16/3 SJEO	20	13A-125V
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Cross Section



Actual Size



Adapters

3-WAY POWER BLOCK



EB3TAP

Catalog Number	Description	Color	Amps-Volts
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EB3TAP	3-wire tap	yellow	15A-125V
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abrasive cloth	28	4-in-1 driver	53	pan head screws	67	stud crimper	30
adjustable wrenches	58	FasGroov system	13	pin vise	63	swaging tools	27
allen wrenches	55	FasLoop system	16	pinch-off tools	29	2-in-1 riveter	74
aluminum snips	22	fiberglass handled hammers	49	pipe & duct holders	6	trim nail punch	11
anchor fasteners	66	fiberglass tapes	33	pipe wrench plier	59	'T' square	35
Andy snips	22	fitting brushes	28	plastic anchors	66	tape	60
aprons	84	flaring tools	26,27	pliers	59	tape measures	32
aviation snips	20	folding rules	34	plumb lines	37	tensioning tools	18, 19
		folding tools	9	plumbers roll	28	terminal crimpers	61
		framing squares	35	pouches	80	thermometers	29
ball pein hammers	50			protractors	36	tie rods	16
Ball Tip 'L' wrenches	56	hack saws	40	pry bars	49	tie tools	18, 19
BiMetal hacksaw blades	41	hammers	48	punch drills	64	tinner's circumference rules	34
BiMetal hole saws	44	hand crimpers	7	punch lock stud crimper	30	tool aprons	84
BiMetal reciprocating		hand notcher	9	punch, trim nail	11	tool boxes	78, 79
saw blades	42, 43	hand riveters	74, 75	punch type swaging tools	27	tool pouches	80
binders	77	hand seamers	8, 9			torpedo levels	36
bits, drill	62	Handy Bar	49	rafter squares	35	tote trays	79
Bit-Tip screws	70	hatchets	50	ratchet binders	77	trammel points	5
blind rivets	72	hex key wrenches	55	ratchet wrenches	57	tri & miter square	35
bolt cutters	61	hexagon nuts	67	reamer-deburring tools	25	trim nail punch	11
bolts	67	hoist-pullers	77	reciprocating saw blades	42, 43	trouble lites	89, 90
bulldog snip	22	hole cutters	6, 17	red lip plastic anchors	66	Tru-Lok Tapes	32
		hole punch	30, 74	reinforcement washers	16	tube benders	27
'C' clamp, locking	57	hole saws	44	rivet washers	72	tube cutters	24
canvas aprons	84	hollow nut drivers	54	riveters	74, 75	tube slicer	25
carbide tipped drill bits	62			riveting hammers	48	tubing tools	24
caulking guns	12	jobber length drill bits	62, 63	rivets	72		
chalk/plumb lines	37			roofer's hammer	50	utility knives	38
channel shear	31	key caddy	85	roofer's knife & blades	39		
chuck drivers	53	knee pads	85	rotary-percussion bits	62	washers	67, 72
circular duckbill snips	23	knives	38	rules	34	wire crimpers	61
circular saw blades	46			SAE steel washers	67	wire cutters	61
circumference rules	34	leather handled hammers	48, 49	saws & saw blades	39	wire strippers	61
combination squares	35	leather pouches & aprons	80	scratch awls	4	wood bits	65
compass saws	39	levels	36	screwdrivers	51	wood rules	34
cord sets	86	lineman's side cutters	60	screwdriver bits	53	wooden mallet	50
crimpers	7	locking pliers	57	scribers	4, 5	wrenches	57
crimper, stud	30	long nose pliers	60	seamers	8, 9		
cut-off blades	46	long tape rules	33	self drilling screws	68	Zip-in Screws	68
				setting hammers	48	Zip Snips	21
dampers	3	machine screws	67	shears	20		
diagonal cutters	60	mallet, wood	50	sheet metal drill bits	62, 64		
dividers	5	Mark series tape rules	33	sheet metal hole punch	30, 74		
double cut snips	21	masonry drill bits	62	sheet metal screws	67, 68, 70		
double ender, drill bits	64	material handling equipment	77	sheet metal hand tools	2		
drill and tap screws	70	measuring tapes	32	side cutters	60		
drill bits	62	Mini-Knife	38	SideSwiper	11		
drivers	51	Mini-Saw	41	siding tools	10, 11		
drywall hammer	50	multi-track pliers	59	slip joint pliers	59		
drywall tools	30			snap lock punches	10		
duckbill snips	23	nail hole slot punches	11	snips	20		
duct holders	6	notcher	9	spring type tube benders	27		
duct knives	15, 17	nut drivers	54	squares	35		
duct stretchers	9	nuts	67	starter sets	2		
		nylon ties	19	steel snips	22, 23		
electric shear	23			step drills	65		
electrical pliers	61	oil cans	76	stove bolts	67		
electrical tape	60	offset cutting snips	21	straight edge rules	34		
engineers hammer	50						
extension cords & lites	86						

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